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DATA FOR
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No. 453

Issued in two parts

Helen E. Coffey, Editor

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
01	100	GORK	44 NS	0505.0E		355.0D		15.0		
	127	TORN	44 NS	0630.0E	0943.7	470.0D	350.0	4.0		VD
	260	ONDR	44 NS	0800.0E		338.0D	23.0			
	245	SGMR	43 NS	1140.0	1506.0	574.0	60.0			
	200	HIRA	44 NS	2100.0E	0447.0	630.0D	25.0	15.0		MR
	245	LEAR	43 NS	2156.0	0624.8	742.0	2800.0			
	9400	TYKW	5 S	0015.0	0015.8	2.0	11.0	3.0		
	3750	TYKW	5 S	0015.0	0015.8	2.0	2.0	.7		
	2000	TYKW	8 S	0015.7	0015.8	.3	3.0	1.0		
	9395	PEKG	5 S	0124.0	0126.2	9.0	20.0	5.7		
	2840	PEKG	5 S	0125.0	0126.0	8.0	7.8	4.7		
	3750	TYKW	5 S	0126.0	0126.6	2.0	8.0	2.0		
	9400	TYKW	5 S	0126.0	0126.6	2.0	20.0	8.0		
	17000	NOBE	1 S	0126.3	0126.5	1.2	9.0			L
	9400	TYKW	29 PBI	0128.0		10.0	3.0	1.5		
	9400	TYKW	21 GRF	0200.0	0216.0	80.0	4.0	2.0		
	3750	TYKW	20 GRF	0200.0	0240.0	80.0	4.0	2.0		
	1000	TYKW	45 C	0219.6	0219.8	1.0	6.0	2.0		
	9400	TYKW	5 S	0238.0	0238.3	1.0	18.0	3.0		
	1000	TYKW	45 C	0316.0	0316.8	4.0	46.0	4.0		
	9400	TYKW	5 S	0415.0	0417.0	15.0	4.0	1.5		
	3750	TYKW	5 S	0415.0	0420.0	20.0	2.0	1.0		
	9395	PEKG		0438.0	0442.8		23.0			
	2840	PEKG	21 GRF	0438.0	0456.0	37.0	7.6	3.6		
	9395	PEKG	42 SER	0438.0	0459.0	25.0	31.0	8.1		
	9400	TYKW	5 S	0439.0	0443.3	10.0	18.0	7.0		
	3750	TYKW	5 S	0440.0	0443.4	7.0	12.0	3.5		
	2840	PEKG	1 S	0442.0	0442.8	2.0	6.1	3.0		
	17000	NOBE	20 GRF	0442.0	0443.2	20.0	18.0			L
	15400	LEAR	4 S/F	0442.8	0443.1	5.0	23.0			
	245	LEAR	8 S	0442.8	0443.3	1.0	79.0			
	1000	TYKW	5 S	0443.0	0443.4	2.0	5.0	1.5		
	2000	TYKW	5 S	0443.0	0443.4	2.0	5.0	2.0		
	8800	LEAR	4 S/F	0443.1	0443.1	4.5	20.0			
	606	LEAR	8 S	0443.1	0443.3	.5	37.0			
	4995	LEAR	4 S/F	0443.1	0443.5	4.0	13.0			
	2695	LEAR	8 S	0443.6	0444.5	1.5	08.0			
	2000	TYKW	30 PBI	0445.0		20.0	1.5	.7		
	3750	TYKW	30 PBI	0447.0		20.0	3.0	1.5		
	9400	TYKW	30 PBI	0449.0		20.0	7.0	4.0		
	1000	TYKW	42 SER	0452.2	0454.2	6.0	10.0	1.0		
	9400	TYKW	5 S	0453.0	0454.2	2.5	5.0	1.5		
	3750	TYKW	5 S	0454.0	0454.2	1.0	2.0	1.0		
	2840	PEKG	1 S	0456.0	0459.0	5.0	7.6	3.6		
	9100	GORK	1 S	0458.7	0459.5	4.8	26.0			
	9400	TYKW	5 S	0459.0	0459.5	2.0	21.0	6.0		
	3750	TYKW	5 S	0459.0	0459.6	2.0	6.0	2.0		
	2000	TYKW	5 S	0459.0	0459.6	1.5	3.0	1.0		
	1000	TYKW	45 C	0459.0	0459.6	2.0	59.0	5.0		
	8800	LEAR	8 S	0459.3	0459.5	.8	27.0			
	1415	LEAR	8 S	0459.3	0459.5	.8	24.0			
	4995	LEAR	8 S	0459.3	0459.6	.8	13.0			
	1000	TYKW	5 S	0504.7	0505.0	1.0	7.0	2.0		
	2840	PEKG	1 S	0516.0	0517.8	3.0	5.3	2.0		
	9400	TYKW	5 S	0529.0	0530.0	5.0	3.0	1.5		
	3750	TYKW	5 S	0548.0	0549.0	10.0	3.0	1.0		
	9400	TYKW	45 C	0548.5	0549.0	3.0	9.0	2.0		
	410	LEAR	8 S	0552.5	0552.6	.3	18.0			
	2000	TYKW	5 S	0609.5	0610.6	4.0	11.0	5.0		
	3750	TYKW	5 S	0609.5	0611.0	4.0	5.0	2.0		
	950	GORK	1 S	0609.5	0611.1	4.2	7.0			
	2950	GORK	1 S	0609.9	0610.2	3.2	8.4	4.2		
	1000	TYKW	5 S	0610.0	0611.4	3.0	7.0	3.0		
	2695	LEAR	47 GB	0610.3	0610.6	1.7	11.0			
	1415	LEAR	47 GB	0610.5	0610.8	2.1	18.0			
	100	GORK	46 C	0612.9	0614.3	9.2	50.0D			
	100	GORK		0612.9	0617.5		50.0D			
	234	POTS	4 S/F	0613.0	0613.2	1.5	1000.0	150.0		III
	245	LEAR	47 GB	0613.1	0613.1	.9	920.0			
	410	LEAR	8 S	0613.1	0613.3	.5	10.0			
	113	POTS	42 SER	0613.2	0616.4	5.4	12.0	5.0		III
	100	GORK	46 C	0613.3	0613.7	13.8	95.0			
	100	GORK		0613.3	0617.0		90.0			
	100	GORK	U	0613.3	0622.0		90.0D			
	9400	TYKW	21 GRF	0618.0	0620.0	40.0	7.0	2.5		
	9395	PEKG	3 S	0618.0	0635.3	37.0	33.0	6.9		
	650	GORK	21 GRF	0621.6		20.4	3.0			
	9400	TYKW	5 S	0629.7	0629.9	.5	10.0	3.0		
	650	GORK	1 S	0630.2	0631.1	1.1	6.9			
	4995	ATHN	4 S/F	0633.0	0635.3	4.6	29.0			
	2840	PEKG	1 S	0634.5	0635.3	7.5	7.8	2.5		
	9100	GORK	1 S	0634.6	0635.8	5.7	34.0			
	6100	KISV	4 S/F	0635.0	0635.8	3.0	23.0			
	2000	TYKW	5 S	0635.0	0635.8	3.0	3.0	1.0		
	9400	TYKW	5 S	0635.0	0635.8	4.0	28.0	7.0		
	3750	TYKW	5 S	0635.0	0635.8	3.0	10.0	3.0		
	1415	LEAR	8 S	0635.3	0635.6	.8	22.0			
	2950	GORK	1 S	0635.4	0635.9	1.6	6.0	3.0		
	1000	TYKW	45 C	0635.5	0635.6	1.5	4.0	1.0		
	8800	LEAR	4 S/F	0635.5	0635.8	3.5	38.0			
	4995	LEAR	8 S	0635.6	0635.8	1.0	20.0			

SOLAR RADIO EMISSION
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	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
01	2695	LEAR	8 S	0635.6	0635.8	1.0	11.0			
	15400	LEAR	4 S/F	0635.8	0635.8	551.6	13.0			
	410	LEAR	8 S	0709.1	0709.1	.2	31.0			
	9395	PEKG	20 GRF	0710.0	0713.3	16.0	12.4			
	410	LEAR	8 S	0734.1	0734.1	.2	17.0			
	606	LEAR	8 S	0734.1	0734.1	.2	16.0			
	3000	POTS	23 GRF	0811.0	0811.5	49.0	28.0			
	1470	POTS	23 GRF	0812.0	0838.6	47.0	61.0			
	9500	POTS	20 GRF	0813.0	0839.0	47.0	8.0			
	6100	KISV	1 S	0814.8	0815.4	1.5	5.0			
	950	GORK	23 GRF	0831.7	0837.4	9.6	7.0			
	536	ONDR	40 F	0833.0	0838.0	6.5	7.0	2.0		
	810	KRAK	41 F	0833.3	0837.5	5.5	130.0			
	650	GORK	22 GRF	0833.4	0837.9	8.0	11.0			
	1415	LEAR	8 S	0833.5	0833.6	.1	17.0			
	430	KRAK	40 F	0833.5	0838.5	7.0	21.0			
	2950	GORK	1 S	0836.0	0837.7	5.2	4.8	2.4		
	808	ONDR	8 S	0836.5	0838.0	2.0	125.0			
	808	HIRA	8 S	0836.5	0838.0	2.0	125.0			
	1415	LEAR	8 S	0837.8	0838.0	.5	90.0			
	808	ONDR	8 S	0856.0	0856.5	1.0	10.0			
	808	HIRA	8 S	0856.0	0856.5	1.0	10.0			
	536	ONDR	40 F	0916.0	0917.0	4.0	10.0	0.4		
	2950	GORK	20 GRF	0916.0	0918.0	13.9	5.9	3.0		
	606	LEAR	8 S	0916.5	0917.0	2.0	23.0			
	1415	LEAR	4 S/F	0917.0	0920.5	6.5	31.0			
	808	ONDR	27 RF	0917.0	0925.0	11.5	12.0	14.0		
	2695	LEAR	4 S/F	0918.3	0919.5	5.2	17.0			
	1470	POTS	23 GRF	0925.0E	0925.5	35.0D	13.0			
	3000	POTS	23 GRF	0925.0E	0929.1	35.0D	22.0			
	808	ONDR	8 S	0928.0	0929.0	2.5	80.0			
	6100	KISV	1 S	0928.6	0929.0	1.0	4.0			
	810	KRAK	8 S	0928.9	0929.0	.2	125.0			
	9100	GORK	20 GRF	0929.9	0936.1	40.6	6.0			
	204	IZMI	8 S	0943.1	0943.1	.4	200.0	150.0		
	100	GORK	8 S	0943.1	0943.2	.7	110.0D			
	113	POTS	8 S	0943.1	0943.2	.4	250.0	80.0		III
	430	KRAK	8 S	0943.2	0943.2	.2	14.0			
	5200	BERN	3 S	1227.0	1233.0	11.0	21.0			ONLY PAPER REC
	3200	BERN	3 S	1227.0	1233.0	11.0	11.0			ONLY PAPER REC
	7000	SAOP	3 S	1231.8	1233.2	2.8	13.0	6.0		25L
	113	POTS	4 S/F	1243.6	1243.6	.4	300.0	75.0		III
	113	POTS	4 S/F	1328.1	1328.5	1.3	100.0	20.0		III
	2800	OTTA	22 GRF	1350.0	1400.0	95.0	3.6			
	9400	HUAN	1 S	1358.4	1359.7	2.9	4.8	2.2		O
	930	BORD	8 S	1429.2	1429.3	.3	18.0	2.0		
	2800	OTTA	240AR	1533.0	1550.0	17.0	3.6			
	930	BORD	41 F	1533.5	1535.2	6.5	57.0	2.0		
	2800	OTTA	2 S/F	1533.5	1535.3	3.5	2.6			
	2800	OTTA	1 S	1553.0	1553.2	1.0	3.2	1.4		
	2800	OTTA	23 GRF	1615.0	1755.0	125.0	7.8	3.9		
	9400	HUAN	20 GRF	1642.8	1646.5	10.5	9.7	5.0		O
	7000	SAOP	20 GRF	1642.8	1646.7	9.3	16.0	8.0		O
	9400	HUAN	21 GRF	1719.7	1723.0	58.0	16.2	7.8		L
	7000	SAOP	20 GRF	1720.1	1723.7	16.1	25.0	12.0		15L
	4995	SGMR	8 S	1722.6	1723.1	.7	19.0			
	8800	SGMR	8 S	1722.8	1723.0	.5	18.0			
	1415	SGMR	8 S	1810.8	1813.1U	.0D	80.0			
	7000	SAOP	45 C	1811.0	1812.7	4.0	147.0	73.0		11L
	2800	OTTA	4 S/F	1811.0	1813.0	5.0	53.0	13.4		
	9400	HUAN	4 S/F	1811.2	1812.5	2.4	193.9	86.4		L
	9400	HUAN		1811.2	1812.8		181.0			L
	1415	PALE	4 S/F	1811.3	1813.1	2.8	81.0			
	8800	SGMR	8 S	1812.3	1812.6U	.0D	170.0			
	8800	PALE	8 S	1812.3	1812.6	1.0	220.0			
	15400	PALE	8 S	1812.3	1813.0	1.3	320.0			
	4995	PALE	8 S	1812.3	1813.0	1.0	58.0			
	15400	SGMR	8 S	1812.3	1813.0U	.0D	320.0			
	4995	SGMR	8 S	1812.3	1813.0U	.0D	72.0			
	2695	PALE	8 S	1812.5	1813.0	1.1	48.0			
	2695	SGMR	8 S	1812.5	1813.1U	.0D	49.0			
	410	SGMR	8 S	1812.6	1812.8U	.0D	42.0			
	606	SGMR	8 S	1812.6	1813.1U	.0D	38.0			
	245	SGMR	47 GB	1813.3	1813.3	.0	1300.0			
	100	HIRA	42 SER	2104.6	2105.6	11.0	410.0			WR
	9400	HUAN	2 S/F	2105.1	2106.0	2.6	35.6	15.1		L
	15400	PALE	8 S	2105.3	2105.5	.3	26.0			
	8800	PALE	8 S	2105.3	2106.1	1.2	50.0			
	245	SGMR	8 S	2105.5	2105.6	2.0	490.0			
	2695	PALE	47 GB	2105.5	2106.1	8.6	62.0			
	2695	SGMR	4 S/F	2105.5	2106.1	2.3D	63.0			
	4995	SGMR	8 S	2105.5	2106.1	1.6D	97.0			
	2800	OTTA	45 C	2105.5	2106.3	9.5	59.0	27.0		
	8800	SGMR	8 S	2105.6	2106.1	.9D	42.0			
	1415	PALE	4 S/F	2105.6	2106.1	8.0	90.0			
	606	SGMR	4 S/F	2105.6	2106.3	2.4D	81.0			
	410	SGMR	8 S	2105.6	2106.3	2.0D	250.0			
	4995	PALE	8 S	2105.8	2106.1	.8	64.0			
	1415	SGMR	8 S	2105.8	2106.1	1.8D	71.0			
	9400	HUAN	4 S/F	2108.7	2110.0	5.4	27.5	13.6		L
	2695	PENT	29 PBI	2115.0	2115.0	75.0	7.2			

SOLAR RADIO EMISSION
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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
01	100	HIRA	46 C	2254.5	2255.1	3.5	50000.0	640.0		MR
	2695	PENT	4 S/F	2254.5	2255.3	4.0	69.0	14.0		
	100	HIRA		2254.5	2257.5		235.0			MR
	200	HIRA	42 SER	2254.6	2254.8	3.6	625.0			O
	1415	LEAR	47 GB	2254.6	2255.1	4.0	170.0			
	1415	PALE	4 S/F	2254.6	2255.1	3.5	210.0			
	3750	TYKW	45 C	2254.7	2255.2	5.0	98.0	14.0		
	1000	TYKW	47 GB	2254.7	2255.2	5.0	1150.0	100.0		
	9400	TYKW	5 S	2254.7	2255.2	5.0	325.0	25.0		
	2000	TYKW	45 C	2254.7	2255.3	7.0	48.0	9.0		
	4995	PALE	8 S	2254.8	2255.1	.8	139.0			
	8800	LEAR	47 GB	2254.8	2255.1	2.0	360.0			
	8800	PALE	4 S/F	2254.8	2255.1	2.5	400.0			
	15400	LEAR	47 GB	2254.8	2255.1	1.5	260.0			
	4995	LEAR	47 GB	2254.8	2255.1	4.0	139.0			
	2695	PALE	4 S/F	2254.8	2255.1	3.3	74.0			
	2695	LEAR	47 GB	2254.8	2255.1	3.5	70.0			
	245	LEAR	47 GB	2254.8	2255.1	3.5	1800.0			
	15400	PALE	8 S	2254.8	2255.1	.8	230.0			
	8800	MANI	3 S	2254.8	2255.3	1.7	420.7	140.2		
	1415	MANI	3 S	2254.8	2255.3	4.2	260.4	86.8		
	500	HIRA	46 C	2254.9	2255.2	5.6	70.0	18.0		WL
	17000	NOBE	3 S	2254.9	2255.2	.8	220.0			L
	2695	MANI	3 S	2255.0	2255.2	4.0	78.5	26.2		
	410	LEAR	47 GB	2255.0	2255.3	3.3	200.0			
	606	LEAR	47 GB	2255.0	2255.3	3.3	67.0			
	17000	NOBE	29 PBI	2255.7	2255.7	3.0	24.0			O
	1000	TYKW	8 S	2308.0	2308.1	.3	19.0	4.0		
	2695	PALE	8 S	2320.8	2320.8	.2	13.0			
	8800	PALE	8 S	2320.8	2321.5	1.0	24.0			
	15400	PALE	8 S	2322.0	2322.1	.1	30.0			
	8800	PALE	4 S/F	2324.1	2326.8	3.4	24.0			
	15400	PALE	4 S/F	2324.1	2326.8	3.4	27.0			
	1000	TYKW	45 C	2332.7	2334.0	1.7U	13.0	3.0		
	1000	TYKW	45 C	2334.4	2334.6	1.5	33.0	10.0		
	1000	TYKW	45 C	2347.3	2347.8	1.0	173.0	20.0		
	9400	TYKW	5 S	2347.5	2347.7	.5	4.0	1.5		RAIN
	2000	TYKW	5 S	2347.5	2347.7	.8	3.0	1.0		
	3750	TYKW	5 S	2347.5	2347.7	.8	3.0	1.0		
	3750	TYKW	21 GRF	2350.0	0019.0	70.0	4.0	1.5		
	2000	TYKW	21 GRF	2353.0	0025.0	70.0	2.0	1.0		
	9400	TYKW	5 S	2359.0	2359.3	1.0	35.0	11.0		RAIN
02	260	ONDR	44 NS	0741.0E		397.0D	20.0			
	245	SGMR	43 NS	1141.0	1912.8	572.0D	320.0			
	200	HIRA	44 NS	2100.0E	0245.0	630.0D	40.0	10.0		MR
	245	LEAR	43 NS	2156.0	0821.8	743.0	350.0			
	1415	LEAR	8 S	0007.6	0007.8	.4	19.0			
	1000	TYKW	5 S	0007.7	0007.9	.5	9.0	2.0		
	1000	TYKW	8 S	0009.8	0009.9	.3	3.0	.7		
	1000	TYKW	45 C	0042.6	0043.0	.5	3.0	1.0		
	2840	PEKG	45 C	0043.0	0045.2	7.0	18.0	6.5		
	1000	TYKW	8 S	0043.7	0043.8	.3	6.0	1.5		
	9395	PEKG	5 S	0044.0	0045.2	4.0	25.0	6.9		
	9400	TYKW	5 S	0045.0	0045.7	2.5	39.0	8.0		
	1000	TYKW	45 C	0045.0	0046.4	6.0	29.0	2.5		
	2000	TYKW	45 C	0045.0	0046.4	6.0	9.0	2.0		
	3750	TYKW	45 C	0045.0	0046.4	5.0	15.0	3.0		
	8800	LEAR	8 S	0045.3	0045.6	1.7	50.0			
	500	HIRA	45 C	0045.3	0045.9	1.0	68.0	30.0		WL
	100	HIRA	46 C	0045.4	0045.8	1.8	180.0	56.0		MR
	15400	LEAR	8 S	0045.5	0045.6	1.3	30.0			
	245	LEAR	47 GB	0045.6	0045.8	.7	1800.0			
	4995	LEAR	8 S	0045.6	0046.3	1.4	22.0			
	2695	MANI	3 S	0045.8	0046.3	1.2	15.7	5.2		
	4995	MANI	3 S	0045.8	0046.3	1.2	37.5	12.5		
	1415	MANI	3 S	0045.8	0046.3	1.2	27.1	9.0		
	8800	MANI	3 S	0045.8	0046.3	1.2	52.6	17.5		
	1415	LEAR	8 S	0046.1	0046.3	.9	20.0			
	606	LEAR	8 S	0046.1	0046.3	.7	58.0			
	2695	LEAR	8 S	0046.1	0046.3	1.0	13.0			
	410	LEAR	8 S	0046.1	0046.3	.7	119.0			
	9395	PEKG	28 PRE	0050.0	0111.5	52.0	16.0			
	3750	TYKW	5 S	0051.0	0053.0	5.0	2.0	1.0		
	2840	PEKG	28 PRE	0100.0	0119.0	44.0	9.7	7.3		
	1000	TYKW	45 C	0109.7	0110.1	.5	5.0	1.5		
	3750	TYKW	28 PRE	0113.0	0136.6	32.0	5.0	2.0		
	9400	TYKW	28 PRE	0120.0U	0125.0	24.0U	6.0	3.0		RAIN
	1000	TYKW	45 C	0136.0	0136.3	1.0	7.0	2.0		
	9395	PEKG	3 S	0142.0	0145.1	6.0	166.0	17.0		
	1000	TYKW	28 PRE	0143.0	0143.6	2.0	4.0	1.0		
	2930	YORO	3 S	0143.0	0145.0	4.0	58.0			
	2840	PEKG	45 C	0144.0	0145.2	7.0	55.0	13.0		
	9400	TYKW	45 C	0144.0	0145.6	3.0	195.0	30.0		
	8800	LEAR	4 S/F	0144.6	0145.6	2.4	210.0			
	500	HIRA	45 C	0145.0	0145.3	2.0	80.0	15.0		WL
	1000	TYKW	47 GB	0145.0	0145.7	3.0	520.0	50.0		
	3750	TYKW	5 S	0145.0	0145.8	3.0	71.0	20.0		
	2000	TYKW	5 S	0145.0	0145.8	3.0	33.0	9.0		
	200	HIRA	46 C	0145.1	0145.3	.9	590.0	160.0		O
	1415	PALE	8 S	0145.1	0145.5	1.0	190.0			

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
02	1415	LEAR	8 S	0145.1	0145.5	1.9	200.0			
	4995	PALE	8 S	0145.1	0145.6	1.0	100.0			
	100	HIRA	46 C	0145.1	0145.6	2.0	4300.0	725.0		WR
	8800	PALE	8 S	0145.3	0145.5	.8	210.0			
	15400	PALE	8 S	0145.3	0145.5	.5	200.0			
	245	LEAR	47 GB	0145.3	0145.6	.8	2800.0			
	2695	LEAR	8 S	0145.3	0145.6	1.8	49.0			
	15400	LEAR	8 S	0145.3	0145.6	1.5	230.0			
	2695	PALE	8 S	0145.3	0145.6	.8	46.0			
	4995	LEAR	8 S	0145.3	0145.6	1.7	100.0			
	606	LEAR	8 S	0145.3	0145.8	.8	76.0			
	410	LEAR	8 S	0145.3	0145.8	.8	160.0			
	17000	NOBE	7 C	0145.4	0145.6	1.5	228.0			L
	1415	MANI	3 S	0146.3	0146.7	1.7	231.7	77.2		
	4995	MANI	3 S	0146.3	0146.8	1.1	125.8	41.9		
	8800	MANI	3 S	0146.3	0146.8	1.2	231.5	77.2		
	2695	MANI	3 S	0146.3	0146.8	1.2	48.2	16.1		
	9400	TYKW	30 PBI	0147.0		3.0	6.0	3.0		
	2000	TYKW	30 PBI	0148.0		5.0	2.0	1.0		
	1000	TYKW	30 PBI	0148.0		5.0	2.0	1.0		
	3750	TYKW	30 PBI	0148.0		4.0	2.0	1.0		
	500	HIRA	45 C	0149.0	0150.0	30.0	30.0	18.0		ML
	1000	TYKW	45 C	0149.0	0150.4	4.0	20.0	5.0		
	2000	TYKW	45 C	0149.0	0150.4	3.5	6.0	2.0		
	410	LEAR	4 S/F	0149.3	0149.6	2.8	19.0			
	1415	LEAR	4 S/F	0149.3	0150.1	2.7	10.0			
	4995	LEAR	4 S/F	0149.3	0150.1	2.7	10.0			
	245	LEAR	4 S/F	0149.3	0150.1	2.8	59.0			
	2695	LEAR	4 S/F	0149.3	0150.1	2.7	10.0			
	8800	LEAR	8 S	0149.6	0150.1	1.2	06.0			
	3750	TYKW	5 S	0150.0	0150.4	1.0	6.0	2.0		
	9400	TYKW	31 ABS	0150.0	0220.0U	70.0U	-6.0U	-3.0U		
	606	LEAR	8 S	0150.1	0150.5	2.0	57.0			
	2840	PEKG	29 PBI	0151.0		12.0	7.2	2.9		
	3750	TYKW	31 ABS	0152.0	0207.0	45.0	-5.0	-2.5		
	1000	TYKW	31 ABS	0153.0	0209.0	55.0	-4.0	-2.0		
	2000	TYKW	31 ABS	0153.0	0212.0	55.0	-5.0	-2.0		
	9400	TYKW	45 C	0209.7U	0210.0	1.0U	50.0U	25.0U		
	245	LEAR	47 GB	0230.8	0231.0	.3	660.0			
	9395	PEKG	20 GRF	0231.0	0237.4	22.0	18.5			
	8800	LEAR	8 S	0242.0	0242.1	.8	11.0			
	15400	LEAR	8 S	0242.0	0242.1	.8	22.0			
	1000	TYKW	5 S	0243.9	0244.2	.5	7.0	2.0		
	1000	TYKW	8 S	0246.0	0246.1	.4	8.0	3.0		
	1000	TYKW	5 S	0251.0	0251.5	.8	62.0	12.0		
	1000	TYKW	45 C	0258.8	0259.2	1.0	130.0	18.0		
	1000	TYKW	28 PRE	0305.0	0306.7	2.5	126.0	10.0		
	3750	TYKW	28 PRE	0305.5	0306.6	2.5	3.0	1.5		
	1415	LEAR	8 S	0305.8	0306.1	.3	20.0			
	2840	PEKG	3 S	0307.0	0308.2	9.0	74.0	14.0		
	100	HIRA	46 C	0307.4	0308.5	3.0	40000.0	3840.0		O
	8800	LEAR	47 GB	0307.5	0308.5	5.6	190.0			
	1000	TYKW	47 GB	0307.5	0308.8	5.0	5900.0	370.0		
	1415	PALE	4 S/F	0307.6	0308.6	2.2	320.0			
	1415	LEAR	47 GB	0307.8	0308.8	4.2	250.0			
	500	HIRA	45 C	0308.0	0308.5	6.0	90.0	25.0		ML
	9400	TYKW	45 C	0308.0	0308.6	5.0U	153.0	25.0		RAIN
	3750	TYKW	45 C	0308.0	0308.7	6.0	96.0	16.0		
	2000	TYKW	5 S	0308.0E	0308.9	6.0D	115.0	16.0D		
	15400	LEAR	47 GB	0308.1	0308.5	4.7	210.0			
	4995	LEAR	47 GB	0308.1	0308.6	4.4	119.0			
	606	LEAR	47 GB	0308.1	0308.8	2.0	70.0			
	17000	NOBE	3 S	0308.2	0308.6	2.0	193.0			L
	8800	PALE	8 S	0308.3	0308.3	.8	220.0			
	15400	PALE	8 S	0308.3	0308.3	.8	240.0			
	4995	PALE	8 S	0308.3	0308.6	1.0	100.0			
	2695	LEAR	47 GB	0308.3	0308.6	3.8	88.0			
	2695	PALE	8 S	0308.3	0308.6	1.5	100.0			
	245	LEAR	47 GB	0308.3	0308.8	1.0	340.0			
	410	LEAR	47 GB	0308.3	0308.8	1.2	360.0			
	1415	MANI	4 S/F	0309.0	0310.0	4.5	287.1	95.7		
	4995	MANI	4 S/F	0309.2	0309.9	4.8	160.2	53.4		
	2695	MANI	3 S	0309.2	0309.9	4.6	80.4	26.8		
	8800	MANI	4 S/F	0309.2	0309.9	4.8	185.2	61.7		
	3750	TYKW	29 PBI	0314.0		15.0	2.0	1.0		
	2000	TYKW	29 PBI	0314.0		15.0	3.0	1.5		
	1000	TYKW	45 C	0323.5	0323.8	.7	75.0	17.0		
	1000	TYKW	8 S	0335.7	0335.8	.3	5.0	1.5		
	2000	TYKW	21 GRF	0337.0	0340.0	50.0U	1.5	.7		
	3750	TYKW	21 GRF	0337.0	0400.0	55.0U	2.0	1.0		
	1000	TYKW	5 S	0338.6	0338.8	.5	33.0	14.0		
	2840	PEKG	5 S	0347.0	0349.8	9.0	14.0	4.1		
	1000	TYKW	47 GB	0347.5	0350.5	7.0	735.0	30.0		
	9395	PEKG		0348.0	0349.8		8.9			
	2000	TYKW	45 C	0348.0	0350.6	7.0	9.0	2.5		
	9395	PEKG	7 C	0348.0	0351.3	6.0	14.0	5.4		
	1415	LEAR	4 S/F	0348.3	0350.5	3.8	100.0			
	3750	TYKW	45 C	0349.0	0350.4	8.0	15.0	4.0		
	1415	MANI	4 S/F	0349.4	0351.8	3.6	112.9	37.6		
	100	HIRA	46 C	0350.0	0350.3	2.0	7000.0	515.0		WR
	606	LEAR	4 S/F	0350.0	0351.3	3.0	13.0			

SOLAR RADIO EMISSION
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	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
02	4995	LEAR	4 S/F	0350.1	0350.3	4.4	20.0			
	8800	LEAR	4 S/F	0350.1	0351.8	4.0	17.0			
	15400	LEAR	4 S/F	0350.1	0352.6	4.0	13.0			
	2695	LEAR	8 S	0350.3	0350.3	1.7	13.0			
	2695	MANI	4 S/F	0351.3	0351.6	.7	10.7	3.6		
	4995	MANI	4 S/F	0351.3	0351.6	.7	22.9	7.6		
	1000	TYKW	45 C	0424.0	0425.7	4.0	10.0	1.5		
	1000	TYKW	8 S	0432.3	0432.4	.3	2.5	.7		
	1000	TYKW	45 C	0450.3	0451.1	2.0	15.0	2.5		
	1000	TYKW	45 C	0453.0	0455.1	2.5	16.0	2.0		
	100	MIRA	42 SER	0459.5	0723.0	146.0D	540.0			MR,SUNSET
	9400	TYKW	20 GRF	0500.0U	0520.0	60.0U	4.0	2.0U		RAIN
	3750	TYKW	21 GRF	0500.0	0520.0	60.0	3.0	1.5		
	3750	TYKW	5 S	0536.0	0536.6	1.5	3.0	1.0		
	245	LEAR	8 S	0559.0	0559.1	.3	38.0			
	3750	TYKW	5 S	0559.0	0559.2	.7	4.0	1.0		
	234	POTS	42 SER	0624.6	0624.8	8.9	22000.0	430.0		III
	9400	TYKW	5 S	0631.0	0632.0	3.0	24.0	7.0		RAIN
	245	LEAR	47 GB	0705.1	0705.3	.2	870.0			
	3000	POTS	22 GRF	0710.0	0722.8	40.0	9.0			
	1470	POTS	22 GRF	0710.0	0722.8	30.0	7.0			
	113	POTS	4 S/F	0722.1	0722.3	1.4	420.0	80.0		III
	245	LEAR	8 S	0722.6	0723.1	1.2	24.0			
	410	LEAR	8 S	0723.1	0723.3	.7	11.0			
	3000	POTS	22 GRF	0810.0	0817.0	20.0	14.0			
	1470	POTS	22 GRF	0810.0	0817.0	20.0	7.5			
	2950	GORK	1 S	0815.8	0816.8	5.0	9.4	4.7		
	808	ONDR	8 S	0816.5	0817.0	1.0	45.0			
	6100	KISV	4 S/F	0816.7	0816.9	1.0	8.0			
	204	IZMI	41 F	0816.8	0816.8	2.5	100.0			
	245	LEAR	47 GB	0816.8	0816.8	.7	1500.0			
	430	KRAK	8 S	0816.8	0816.9	.3	12.0			
	810	KRAK	8 S	0816.8	0816.9	.2	29.0			
	234	POTS	4 S/F	0816.9	0816.9	.3	2500.0	600.0		III
	113	POTS	42 SER	0816.9	0817.0	2.8	270.0	10.0		III
	810	KRAK	8 S	0817.5	0817.6	.3	170.0			
	430	KRAK	8 S	0817.6	0817.7	.3	92.0			
	245	LEAR	8 S	0818.5	0818.6	.6	130.0			
	606	LEAR	8 S	0818.5	0818.6	.3	18.0			
	410	LEAR	8 S	0818.5	0818.6	.3	32.0			
	536	ONDR	40 F	0823.0	0828.0	6.5	3.0	4.0		
	113	POTS	4 S/F	0823.4	0823.5	.9	1100.0	50.0		III
	234	POTS	8 S	0823.4	0823.5	.8	750.0	250.0		III
	2650	DWIN	1 S	0832.0	0832.0	1.0	10.0	5.0		
	245	LEAR	8 S	0843.3	0843.3	.2	290.0			
	204	IZMI	8 S	0843.5	0843.5	.1	200.0	180.0		
	2950	GORK	20 GRF	0957.5	1003.2	37.0	4.7			
	9100	GORK	2 S/F	1124.8	1124.9	2.2	16.0	8.0		
	7000	SAOP	3 S	1125.0	1125.3	.7	13.0	6.0		18L
	7000	SAOP	29 PBI	1125.7		1.2	5.0	2.0		
	810	KRAK	41 F	1156.7	1157.6	1.6	99.0			
	808	ONDR	45 C	1157.0	1158.0	2.0	85.0	9.0		
	3200	BERN	4 S/F	1207.5	1213.1	12.0	36.0			ONLY PAPER REC
	808	ONDR	46 C	1209.5	1213.5	18.5	434.0	8.0		
	9500	POTS	4 S/F	1212.5	1213.5	7.5	51.0			III
	5200	BERN	4 S/F	1213.0	1213.1	7.0	76.0			ONLY PAPER REC
	11800	BERN	4 S/F	1213.0	1213.1	3.0	33.0			ONLY PAPER REC
	113	POTS	4 S/F	1213.1	1214.0	3.5	3200.0	300.0		III
	228	HARS	45 C	1213.2	1213.5	1.5	840.0	135.0		
	3000	POTS	4 S/F	1213.2	1214.4	6.8	44.0			
	4995	ATHN	4 S/F	1213.3	1213.6	4.3	68.0			
	9400	HUAN	3 S	1213.3	1213.7	1.7	50.0	26.4		L
	2695	ATHN	4 S/F	1213.3	1214.3	5.2	38.0			
	7000	SAOP	45 C	1213.4	1213.7	.8	98.0	49.0		20L
	3100	CRIM	3 S	1213.4	1214.2	6.0	48.0	16.0		
	1470	POTS	4 S/F	1213.4	1214.6	6.6	58.0			
	245	SGMR	47 GB	1213.5	1213.8	1.3	700.0			
	536	ONDR	27 RF	1213.5	1214.5	8.0	36.0	7.0		
	8800	SGMR	8 S	1213.6	1213.6	1.4	68.0			
	4995	SGMR	8 S	1213.6	1213.6	1.4	80.0			
	15400	SGMR	8 S	1213.6	1213.8	1.4	61.0			
	234	POTS	4 S/F	1213.6	1214.0	1.2	1700.0	100.0		III
	1415	SGMR	4 S/F	1213.6	1214.0	4.2	86.0			
	606	SGMR	4 S/F	1213.6	1214.5	4.2	57.0			
	810	KRAK	45 C	1213.7	1213.8	4.0	280.0	19.0		
	430	KRAK	4 S/F	1213.8	1214.7	2.1	150.0	23.0		
	410	SGMR	8 S	1214.0	1214.3	1.1	100.0			
	7000	SAOP	29 PBI	1214.2	1214.4	4.2	49.0	24.0		
	2695	SGMR	4 S/F	1214.3	1214.5	3.2	61.0			
	9400	HUAN	29 PBI	1215.0	1215.0	14.1	8.6	5.6		L
	2650	DWIN	2 S/F	1228.0	1229.0	5.0	45.0	20.0		
	2800	OTTA	1 S	1306.0	1308.3	5.0	5.8	2.0		
	2650	DWIN	1 S	1323.0	1323.0	1.0	10.0	5.0		
	3200	BERN	45 C	1500.0	1503.5	13.0	110.0			ONLY PAPER REC
	5200	BERN	45 C	1500.0	1503.5	12.0	161.0			ONLY PAPER REC
	11800	BERN	4 S/F	1500.0	1503.5	7.0	105.0			ONLY PAPER REC
	9400	HUAN	4 S/F	1500.4	1503.3	5.5	167.4	56.9		L
	2800	OTTA	46F C	1500.5	1503.8	14.0	132.0	23.0		
	2695	SGMR	47 GB	1501.3	1503.8	12.5D	130.0			
	245	SGMR	47 GB	1502.1	1502.6	11.7	1000.0			
	4995	SGMR	47 GB	1502.1	1503.6	11.7D	190.0			

SOLAR RADIO EMISSION
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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
02	15400	SGMR	47 GB	1502.3	1503.6	11.5D	110.0			
	8800	SGMR	47 GB	1502.3	1503.6	11.5D	160.0			
	1415	SGMR	47 GB	1502.3	1504.0	11.5D	139.0			
	606	SGMR	47 GB	1502.3	1504.0	11.5D	70.0			
	8800	ATHN	4 S/F	1502.5	1503.6	4.3	110.0			
	4995	ATHN	4 S/F	1502.6	1503.6	4.5	92.0			
	100	ATHN	4 S/F	1502.6	1503.6	4.5	92.0			
	410	SGMR	4 S/F	1503.3	1503.5	10.5D	110.0			
	9400	HUAN	30 PBI	1505.9	1505.9	19.3	12.1	4.0		L
	9400	HUAN	1 S	1508.0	1508.3	1.7	5.2	2.4		L
	2650	DWIN	45 C	1515.0	1519.0	10.0	110.0	40.0		
	9400	HUAN	2 S/F	1604.5	1604.7	1.5	6.9	4.6		0
	2800	OTTA	21 GRF	1615.0	1640.0	50.0	4.6	1.6		
	2800	OTTA	4 S/F	1619.0	1620.0	25.0	10.3	3.0		
	1415	SGMR	8 S	1621.6	1622.1	.7	42.0			
	2695	SGMR	8 S	1621.8	1622.0	.3	20.0			
	2800	OTTA	23 GRF	1715.0	1750.0	120.0	6.2	3.0		
	9400	HUAN	20 GRF	1728.2	1812.7	101.1	17.3	5.5		0
	7000	SAOP	3 S	1730.4	1731.0	.7	21.0	10.0		1IL
	7000	SAOP	29 PBI	1731.1	1731.1	3.9	9.0	4.0		
	7000	SAOP	3 S	1746.9	1746.9	1.5	15.0	7.0		0
	4995	SGMR	4 S/F	1747.8	1748.3	4.7	21.0			
	7000	SAOP	29 PBI	1748.4	1748.4	2.0	6.0	3.0		
	4995	SGMR	4 S/F	1809.0	1812.3	3.8	27.0			
	2800	OTTA	45 C	1809.2	1809.6	6.0	8.6	2.9		
	2695	SGMR	4 S/F	1809.3	1809.6	3.8	19.0			
	7000	SAOP	3 S	1811.3	1812.0	2.0	15.0	7.0		30L
	7000	SAOP	4 S/F	1908.5	1909.0	.7	23.0	11.0		9L
	4995	SGMR	4 S/F	1908.8	1909.3	3.3	23.0			
	7000	SAOP	29 PBI	1909.2		.9	6.0	3.0		
	2695	PENT	27A RF	1930.0		220.0	4.8	4.0		
	2800	OTTA	24 R	1930.0	2000.0	30.0	4.8	2.4		
	2695	PENT	24P R	2000.0		145.0	4.8			
	2800	OTTA	3 S	2022.0	2022.6	3.0	10.4	3.5		
	2695	SGMR	4 S/F	2022.1	2022.5	3.0D	17.0			
	1415	SGMR	4 S/F	2022.1	2022.5	3.0D	11.0			
	4995	SGMR	4 S/F	2022.3	2022.5	2.7	17.0			
	2695	PENT	1 S	2043.0	2044.5	4.0	2.4	1.0		
	1415	SGMR	8 S	2044.6	2045.6	1.2	13.0			
	2695	PENT	1 S	2053.0	2054.6	5.0	5.2	2.0		
	1415	SGMR	4 S/F	2058.5	2100.3	2.6	26.0			
	9400	HUAN	1 S	2119.3	2121.3	5.7	8.6	4.4		0
	9400	HUAN	1 S	2125.9	2126.6	2.3	10.4	6.0		L
	2695	PENT	1 S	2126.0	2127.2	5.0	7.2	3.4		
	2695	PENT	21 GRF	2126.0	2136.0	50.0	5.6	3.0		
	1000	TYKW	45 C	2147.0U	2147.3	2.0U	128.0U	10.0U		
	2695	PENT	2 S/F	2147.0	2148.3	4.0	8.6	4.0		
	1000	TYKW	5 S	2154.0	2154.8	1.5	3.0	6.0		
	2695	PENT	1 S	2154.0	2155.0	3.0	7.2	2.4		
	9400	TYKW	45 C	2158.0	2159.0	11.0	21.0	4.0		
	3750	TYKW	45 C	2158.0	2159.1	1.1	29.0	3.0		
	2000	TYKW	45 C	2158.0	2159.2	10.0	26.0	5.0		
	9400	HUAN	1 S	2158.3	2159.3	2.3	15.5	6.9		0
	2695	PENT	4 S/F	2158.5	2159.1	4.0	27.4	7.0		
	1000	TYKW	5 S	2158.5	2159.2	2.5	21.0	6.0		
	1000	TYKW	45 C	2201.0	2203.8	7.0U	14.0U	4.0U		
	2695	PENT	1 S	2203.0	2203.9	2.0	7.2	3.6		
	2695	PENT	26 FAL	2225.0	2310.0	45.0	-4.8	-2.4		
	3750	TYKW	45 C	2254.0	2254.9	6.0	11.0	2.0		
	2000	TYKW	45 C	2254.0	2255.0	7.0	7.0	2.0		
	1000	TYKW	45 C	2254.5	2254.6	2.0	11.0	3.0		
	245	LEAR	47 GB	2254.8	2254.8	3.5	880.0			
	1000	TYKW	45 C	2257.0	2257.8	4.0	14.0	1.5		
	9400	TYKW	5 S	2330.0	2333.0	12.0	9.0	3.5		
	3750	TYKW	5 S	2330.0	2333.0	12.0	5.0	2.0		
	2000	TYKW	21 GRF	2330.0	2350.0	40.0	1.5	.7		
	3750	TYKW	21 GRF	2330.0	2350.0	40.0	4.0	2.0		
	1000	TYKW	45 C	2331.0	2332.2	3.0	6.0	1.0		
	2000	TYKW	5 S	2332.0	2333.0	2.0	1.5	.5		
	3750	TYKW	5 S	2343.0	2343.6	2.0	7.0	2.0		
	1000	TYKW	45 C	2343.4	2343.5	1.0	5.0	1.0		
	2000	TYKW	5 S	2343.5	2343.7	1.5	3.0	1.0		
	4995	LEAR	8 S	2347.3	2347.8	.7	07.0			
	8800	LEAR	8 S	2347.3	2347.8	.7	11.0			
	2695	LEAR	8 S	2347.5	2347.8	.5	05.0			
	410	LEAR	8 S	2347.6	2347.8	.4	17.0			
	606	LEAR	8 S	2347.6	2347.8	.2	11.0			
	245	LEAR	8 S	2347.6	2347.8	.4	11.0			
	1415	LEAR	8 S	2347.6	2347.8	.4	09.0			
03	200	GORK	44 NS	0534.0E		386.0D		25.0		
	204	IZMI	43 NS	0700.0		300.0D	70.0			
	260	ONDR	44 NS	0750.0E		400.0D	24.0			
	100	GORK	43 NS	0945.0		135.0		5.0		
	127	TORN	44 NS	1006.0E	1200.5	294.0D	140.0	240.0		V1
	245	SGMR	43 NS	1215.0	1456.6	537.0D	1800.0			
	200	HIRA	44 NS	2100.0E	0644.0	630.0D	60.0	30.0		MR
	245	LEAR	43 NS	2155.0	2217.3	744.0	270.0			
	100	HIRA	43 NS	2200.0	0500.0	630.0D	300.0	80.0		SR
	208	YORO	44 NS	2300.0E		240.0D		22.0		
	3750	TYKW	5 S	0015.0	0024.0	15.0	11.0	4.0		

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	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
03	2000	TYKW	5	S	0022.0	0025.0	13.0	4.0	1.5		
	3750	TYKW	30	PBI	0030.0		75.0	5.0	2.5		
	2000	TYKW	20	GRF	0058.0	0110.0	45.0	3.0	1.5		
	3750	TYKW	20	GRF	0100.0	0110.0	40.0	3.0	1.5		
	3750	TYKW	45	C	0149.0	0153.0	22.0	3.0	1.0		
	9400	TYKW	20	GRF	0149.0	0205.0	35.0	4.0	2.0		
	1000	TYKW	8	S	0240.1	0240.2	.3	9.0	3.0		
	3750	TYKW	21	GRF	0245.0	0310.0	155.0	5.0	2.5		
	2000	TYKW	21	GRF	0245.0	0314.0	155.0	5.0	2.0		
	9400	TYKW	20	GRF	0248.0	0314.0	65.0	8.0	3.0		
	3750	TYKW	20	GRF	0311.0	0314.5	38.0	6.0	3.0		
	200	HIRA	46	C	0316.8	0318.3	1.8	840.0	190.0		MR
	9395	PEKG			0408.0	0409.1					
	9395	PEKG	45	C	0408.0	0409.1	7.0	17.0	3.4		
	1000	TYKW	45	C	0409.0	0409.4	5.0	80.0	4.0		
	9400	TYKW	45	C	0409.3	0409.6	2.7	42.0	10.0		
	3750	TYKW	45	C	0409.3	0409.6	4.7	37.0	11.0		
	2000	TYKW	45	C	0409.3	0409.6	4.7	12.0	4.0		
	8800	MANI	3	S	0409.5	0409.8	.5	41.2	13.7		
	4995	MANI	3	S	0409.5	0409.8	.5	47.0	15.7		
	1415	MANI	3	S	0409.5	0409.8	.5	28.1	9.4		
	2695	MANI	3	S	0409.5	0409.8	2.0	21.0	7.0		
	9400	TYKW	30	PBI	0412.0		65.0	5.0	2.0		
	3750	TYKW	30	PBI	0414.0		65.0	6.0	2.5		
	2000	TYKW	30	PBI	0414.0		50.0	2.0	1.0		
	2000	TYKW	5	S	0424.0	0424.8	6.0	2.0	1.0		
	1000	TYKW	5	S	0424.0	0424.8	2.0	1.5	.5		
	3750	TYKW	5	S	0424.5	0424.8	1.0	3.0	1.0		
	2840	PEKG	20	GRF	0435.0	0452.0	43.0	7.1	4.0		
	9400	TYKW	5	S	0436.7	0436.9	.5	6.0	1.5		
	9395	PEKG	20	GRF	0452.0E	0455.0	29.0D	13.0			
	9100	GORK	23	GRF	0525.3	0834.1	395.0	26.0			
	2950	GORK	20	GRF	0529.7	0818.7	390.0D	21.0	10.0		
	3750	TYKW	5	S	0532.0	0532.4	1.5	4.0	1.5		
	17000	NOBE	1	S	0532.0	0532.4	1.5	21.0			0
	9400	TYKW	5	S	0532.0	0532.4	1.5	6.0	1.5		
	1000	TYKW	5	S	0537.4	0537.6	.6	8.0	3.0		
	9400	TYKW	5	S	0540.6	0540.8	.8	6.0	1.5		
	410	LEAR	8	S	0555.8	0556.1	.7	36.0			
	3750	TYKW	5	S	0603.0	0603.7	1.5	3.0	1.0		
	1000	TYKW	5	S	0603.0	0604.0	2.0	5.0	2.0		
	650	GORK	4	S/F	0603.4	0603.4	.8	40.0	6.5		
	9400	TYKW	5	S	0603.5	0603.7	.5D	7.0	2.0D		
	3750	TYKW	5	S	0610.0	0611.6	6.0	11.0	3.0		
	6100	KISV	2	S/F	0611.0	0611.7	1.5	4.0			
	113	POTS	8	S	0657.0	0657.0	.2	250.0	80.0		III
	9100	GORK	1	S	0706.2	0706.7	1.2	8.0	4.0		
	6100	KISV	1	S	0706.2	0706.7	1.0	6.0			
	234	POTS	41	F	0742.5	0742.7	1.4	260.0	15.0		III
	4995	LEAR	4	S/F	0834.0	0834.1	4.5	19.0			
	8800	LEAR	4	S/F	0834.0	0834.1	4.8	17.0			
	234	POTS	4	S/F	0856.5	0856.5	.1	240.0	50.0		III
	100	GORK	41	F	0930.0	0930.2	7.8	70.0D			
	204	IZMI	41	F	0930.8	0931.0	3.3	360.0			
	100	GORK			0937.5	0937.5		70.0D			
	127	TORN	27	RF	1006.0E		66.0D		810.0		
	430	KRAK	8	S	1012.5	1012.6	.2	27.0			
	260	ONDR	8	S	1054.0	1055.0	2.0	74.0			
	430	KRAK	8	S	1054.5	1054.5	.2	66.0			
	100	GORK	8	S	1054.8	1055.0U	1.2	80.0D			
	234	POTS	4	S/F	1054.8	1055.2	.6	36.0	12.0		III
	113	POTS	4	S/F	1054.9	1055.2	.8	1400.0	200.0		III
	536	ONDR	8	S	1115.0	1115.5	1.0	17.0			
	536	ONDR	8	S	1131.5	1132.0	2.0	20.0			
	430	KRAK	42	SER	1131.5	1133.2	83.0	40.0			
	430	KRAK			1131.5	1215.7		170.0			
	430	KRAK			1131.5	1254.0		330.0			
	15400	SGMR	8	S	1311.6	1311.6	1.5	36.0			
	7000	SAOP	28	PRE	1311.6	1312.8	2.2	8.0	4.0		
	7000	SAOP	3	S	1313.9	1314.2	1.0	16.0	8.0		20L
	7000	SAOP	29	PBI	1314.9	1320.4	9.3	6.0	3.0		
	113	POTS	4	S/F	1319.3	1319.3	.5	100.0	7.0		III
	7000	SAOP	1	S	1343.4	1343.9	1.4	9.0	4.0		0
	430	KRAK	8	S	1348.4	1348.4	.2	28.0			
	234	POTS	8	S	1351.2	1351.2	.7	230.0	80.0		III
	113	POTS	8	S	1351.2	1351.3	.1	630.0	150.0		III
	2800	OTTA	21	GRF	1357.0		90.0	7.6			
	7000	SAOP	3	S	1412.4	1414.0	3.0	50.0	25.0		0
	5200	BERN	3	S	1412.7	1413.7	4.0	51.0			ONLY PAPER REC
	3200	BERN	3	S	1412.7	1413.7	4.0	18.0			ONLY PAPER REC
	9400	MUAN	3	S	1412.7	1414.0	3.7	21.3	9.8		0
	113	POTS	4	S/F	1415.3	1415.3	.2	250.0	50.0		III
	7000	SAOP	29	PBI	1415.4	1415.4	2.9	9.0	4.0		
	7000	SAOP	21	GRF	1427.3		65.0	11.0	5.0		0
	7000	SAOP	3	S	1427.3	1500.3	33.0U	16.0	8.0		10L
	7000	SAOP	1	S	1427.3	1502.3	36.0U	8.0	4.0		20L
	4995	ATHN	4	S/F	1453.6	1456.1	5.2D	41.0			
	8800	ATHN	4	S/F	1453.6	1456.1	5.2	39.0			
	1415	ATHN	4	S/F	1453.8	1456.0	5.0D	32.0			
	2695	ATHN	4	S/F	1453.8	1456.1	5.0D	45.0			
	410	SGMR	47	GB	1459.3	1500.1	3.8D	119.0			

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
03	245	SGMR	47 GB	1459.5	1500.1	3.8	1300.0			
	606	SGMR	47 GB	1459.6	1500.1	3.2D	25.0			
	15400	SGMR	47 GB	1459.6	1500.3	3.2D	15.0			
	8800	SGMR	47 GB	1459.6	1500.3	3.2D	15.0			
	2800	OTTA	1 S	1500.0	1502.0	2.0U	7.0	3.5		
	2800	OTTA	8 S	1502.0	1502.1	.2	7.6			
	9400	HUAN	3 S	1551.0	1551.5	1.8	30.2	14.8		L
	7000	SAOP	3 S	1551.2	1551.5	.9	22.0	11.0		O
	8800	SGMR	8 S	1551.3	1551.5	.3	27.0			
	15400	SGMR	8 S	1551.3	1551.5	.7	59.0			
	7000	SAOP	29 PBI	1552.1	1553.6	1.5	6.0	3.0		
	9400	HUAN	29 PBI	1552.8	1552.8	8.5	5.3	2.2		O
	2800	OTTA	240 R	1620.0	1640.0	20.0	3.6	1.8		
	2800	OTTA	27 RF	1645.0		115.0	5.0	4.2		
	2800	OTTA	24 R	1645.0	1655.0	10.0	5.0	2.5		
	2800	OTTA	24P R	1655.0		75.0	5.0			
	2800	OTTA	1 S	1804.2	1804.7	1.0	2.6	1.3		
	2800	OTTA	26 FAL	1810.0	1840.0	30.0	-5.0	-2.0		
	9400	HUAN	21 GRF	1905.7	2015.3	142.8	12.4	8.0		O
	9400	HUAN	1 S	2010.8	2011.2	1.3	19.6	8.6		O
	245	SGMR	8 S	2011.1	2011.1	.4	740.0			
	2695	PENT	4 S/F	2014.0	2014.5	3.0	11.0	3.6		
	2695	PENT	2 S/F	2130.0	2132.0	10.0	7.8	3.6		
	1000	TYKW	45 C	2200.5	2200.8	.5	49.0	13.0		
	2000	TYKW	8 S	2200.6	2200.7	.4	8.0	2.0		
	9400	TYKW	5 S	2200.6	2200.7	.5	22.0	8.0		
	410	LEAR	8 S	2220.1	2220.1	.2	11.0			
	3750	TYKW	5 S	2235.3	2235.7	1.0	3.0	1.0		
	3750	TYKW	5 S	2237.0	2238.6	4.0	6.0	2.0		
	1000	TYKW	5 S	2238.0	2238.6	1.5	3.0	1.0		
	606	LEAR	8 S	2238.1	2238.5	.7	18.0			
	245	LEAR	8 S	2238.1	2238.6	.7	20.0			
	410	LEAR	8 S	2238.3	2238.6	.5	13.0			
	606	LEAR	8 S	2305.1	2305.8	1.5	46.0			
	2000	TYKW	45 C	2311.0	2311.2	.3	12.0	5.0		
	208	VORO	4 S/F	2316.0	2317.0	2.0	120.0D			
	3750	TYKW	5 S	2319.0	2319.5	4.0	2.0	.5		
	9400	TYKW	5 S	2345.0	2346.0	3.0	3.0	1.5		
	606	LEAR	8 S	2345.6	2345.8	1.2	74.0			
	1000	TYKW	5 S	2353.7	2353.9	.5	7.0	2.0		
	1000	TYKW	5 S	2357.0	2357.2	.5	5.0	1.5		
04	200	GORK	44 NS	0604.0E		352.0D		30.0		
	100	GORK	44 NS	0605.0E		295.0D		20.0		
	127	TORN	44 NS	0630.0E		420.0D		91.0		V1,DISTURBED
	204	IZMI	43 NS	0700.0		300.0D	87.0			
	260	ONDR	44 NS	0746.0E		404.0D	25.0			
	245	SGMR	43 NS	1145.0	1618.0	565.0D	2200.0			
	410	SGMR	43 NS	1618.0	1759.3	292.0D	62.0			
	200	HIRA	44 NS	2100.0E	0150.0	630.0D	150.0	110.0		MR
	100	HIRA	44 NS	2100.0E	0451.0	630.0D	800.0	500.0		SR
	410	LEAR	43 NS	2155.0	0049.8	745.0	67.0			
	245	LEAR	43 NS	2155.0	0259.3	745.0	160.0			
	208	VORO	44 NS	2300.0E		240.0D		35.0		
	2000	TYKW	21 GRF	0050.0	0125.0	150.0	5.0	2.0		
	3750	TYKW	21 GRF	0050.0	0125.0	150.0	7.0	3.0		
	1000	TYKW	21 GRF	0100.0	0125.0	140.0	4.0	2.0		
	410	LEAR	8 S	0113.6	0113.8	.5	22.0			
	245	LEAR	8 S	0121.8	0122.3	.7	200.0			
	606	LEAR	8 S	0122.1	0122.3	.4	11.0			
	2000	TYKW	45 C	0125.4	0125.8	.6	8.0	2.0		
	2000	TYKW	5 S	0130.8	0131.0	.5	4.0	1.5		
	410	LEAR	8 S	0146.3	0147.0	.8	09.0			
	245	LEAR	8 S	0146.3	0147.3	1.0	23.0			
	2840	PEKG	7 C	0146.4	0147.3	4.6	3.5	2.4		
	606	LEAR	8 S	0146.5	0146.8	.6	23.0			
	606	LEAR	8 S	0149.6	0149.6	.2	310.0			
	500	HIRA	46 C	0152.0	0152.6	2.0	40.0	12.0		MR
	1000	TYKW	45 C	0152.0	0152.9	3.0	23.0	4.0		
	3750	TYKW	45 C	0152.0	0153.1	3.0	13.0	4.0		
	2000	TYKW	45 C	0152.0	0153.1	3.0	4.0	1.0		
	200	HIRA	46 C	0152.0	0153.8	2.0	1260.0	85.0		MR
	208	VORO	4 S/F	0152.0	0154.0	3.0	120.0			
	606	LEAR	8 S	0152.1	0152.8	1.9	20.0			
	100	HIRA	46 C	0152.3	0153.1	2.1	930.0	380.0		MR
	245	LEAR	8 S	0152.3	0153.6	1.5	200.0			
	410	LEAR	8 S	0152.6	0152.8	1.2	24.0			
	1415	LEAR	8 S	0152.6	0152.8	.2	42.0			
	3750	TYKW	29 PBI	0155.0		15.0	3.0	1.5		
	1000	TYKW	8 S	0217.0	0217.2	.4	12.0	5.0		
	1000	TYKW	8 S	0247.1	0247.2	.3	8.0	2.0		
	3750	TYKW	21 GRF	0400.0	0442.0	100.0	4.0	2.0		
	1000	TYKW	5 S	0420.1	0420.4	.6	6.0	1.5		
	2000	TYKW	21 GRF	0430.0	0443.0	70.0	2.0	1.0		
	9400	TYKW	21 GRF	0430.0	0446.0	50.0	4.0	1.5		
	606	LEAR	8 S	0445.1	0445.5	1.7	30.0			
	245	LEAR	8 S	0445.1	0446.6	1.7	41.0			
	410	LEAR	8 S	0445.1	0446.6	1.7	10.0			
	1000	TYKW	42 SER	0445.3	0448.2	3.0	5.0	.7		
	1000	TYKW	8 S	0455.7	0455.8	.3	5.0	1.5		
	2000	TYKW	5 S	0503.0	0503.7	1.5	5.0	1.0		

SOLAR RADIO EMISSION
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	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	POLARIZATION OR REMARKS
04	1000	TYKW	S S	0503.0	0503.7	1.5	1.0	.3		
	9100	GORK	23 GRF	0505.6	0805.8		16.0			
	2950	GORK	21 GRF	0506.0E	0815.0	414.0D	12.0			
	245	LEAR	8 S	0509.8	0510.1	1.2	110.0			
	9100	GORK	1 S	0509.8	0510.4	1.5	20.0	10.0		
	9400	TYKW	28 PRE	0510.0	0510.5	3.0	14.0	5.0		
	3750	TYKW	28 PRE	0510.0	0510.6	3.0	3.5	1.0		
	1000	TYKW	28 PRE	0510.0	0510.7	3.0	2.0	.5		
	410	LEAR	8 S	0510.1	0510.3	.5	360.0			
	8800	LEAR	8 S	0510.1	0510.3	.9	20.0			
	1415	LEAR	8 S	0510.1	0510.6	.9	34.0			
	500	MIRA	41 F	0510.1	0513.4	4.0	700.0			WR
	2000	TYKW	28 PRE	0510.4	0510.7	2.6	6.0	2.0		
	2840	PEKG	3 S	0510.4	0513.4	16.6	27.0	6.8		
	606	MANI	4 S/F	0510.6	0514.1	4.9	27.5	9.2		
	1415	MANI	4 S/F	0510.6	0514.1	4.4	63.8	21.3		
	2000	TYKW	45 C	0513.0	0513.6	3.0	91.0	16.0		
	9400	TYKW	5 S	0513.0	0513.7	3.0	49.0	15.0		
	3750	TYKW	5 S	0513.0	0513.9	4.0	28.0	7.0		
	1000	TYKW	45 C	0513.0	0514.0	3.0	270.0	18.0		
	2950	GORK	3 S	0513.1	0513.7	2.3	33.0	15.0		
	650	GORK	4 S/F	0513.2	0513.4	1.2	21.0	7.0		
	606	LEAR	8 S	0513.3	0513.3	1.3	49.0			
	15400	LEAR	8 S	0513.3	0513.5	.5	30.0			
	8800	LEAR	8 S	0513.3	0513.6	.7	62.0			
	2695	LEAR	8 S	0513.3	0513.6	1.0	36.0			
	4995	LEAR	8 S	0513.3	0513.6	.7	30.0			
	9100	GORK	8 S	0513.3	0513.7	2.3	47.0	23.0		
	410	LEAR	8 S	0513.3	0513.8	.8	23.0			
	1415	LEAR	8 S	0513.3	0513.8	1.0	64.0			
	950	GORK	4 S/F	0513.3	0513.8	2.1	32.0			
	245	LEAR	8 S	0513.5	0513.6	1.0	13.0			
	2695	MANI	3 S	0513.5	0514.0	1.5	16.9	5.6		
	4995	MANI	3 S	0513.5	0514.0	1.5	31.7	10.6		
	9400	TYKW	29 PBI	0516.0		10.0	4.0	1.5		
	410	LEAR	8 S	0540.1	0540.3	.2	16.0			
	1415	LEAR	8 S	0550.6	0550.8	.5	41.0			
	2000	TYKW	5 S	0550.6	0550.9	.5	16.0	3.0		
	1000	TYKW	45 C	0550.7	0551.0	1.3	33.0	8.0		
	606	LEAR	8 S	0550.8	0551.0	.3	10.0			
	2840	PEKG	21 GRF	0600.0	0619.8	56.0	14.3	8.3		
	3750	TYKW	5 S	0615.0	0618.8	15.0	7.0	1.5		
	2695	LEAR	4 S/F	0618.0	0619.5	3.1	09.0			
	4995	LEAR	8 S	0618.1	0618.8	1.5	11.0			
	9400	TYKW	20 GRF	0620.0	0633.0	40.0	10.0	4.0		
	234	POTS	4 S/F	0624.7	0624.9	.8	625.0	80.0		III
	245	LEAR	8 S	0624.8	0625.1	1.0	200.0			
	410	LEAR	8 S	0624.8	0625.1	.5	06.0			
	3750	TYKW	5 S	0634.0	0637.7	20.0	15.0	3.5		
	6100	KISV	3 S	0634.3	0637.4	5.0	9.0			
	2950	GORK	1 S	0636.7	0637.7	2.3	5.8	2.9		
	2840	PEKG	1 S	0637.0	0638.2	4.2	7.6	3.0		
	606	LEAR	8 S	0641.0	0641.1	.3	88.0			
	245	LEAR	8 S	0641.1	0641.1	.2	37.0			
	410	LEAR	8 S	0641.1	0641.1	.2	05.0			
	245	LEAR	8 S	0644.8	0645.0	.3	220.0			
	234	POTS	8 S	0644.9	0644.9	.1	820.0	250.0		III
	113	POTS	4 S/F	0645.0	0645.1	.4	700.0	90.0		III
	410	LEAR	8 S	0743.5	0743.6	.3	150.0			
	606	LEAR	8 S	0743.5	0743.6	.5	24.0			
	430	KRAK	8 S	0743.7	0743.7	.2	180.0			
	9500	POTS	23 GRF	0803.0	0824.4	72.0	19.0			
	6100	KISV	1 S	0803.8	0804.8	2.0	7.0			
	9100	GORK	1 S	0804.0	0804.7	1.6	11.0	5.0		
	5200	BERN	21 GRF	0804.0	0824.2	26.0	13.0			
	8400	BERN	21 GRF	0804.0	0824.2	26.0	20.0			
	3200	BERN	21 GRF	0804.0	0824.2	26.0	13.0			
	430	KRAK	42 SER	0808.8	0829.4	31.0	58.0			
	6100	KISV	8 S	0824.0	0824.3	.5	6.0			
	2950	GORK	1 S	0824.2	0824.3	.6	12.0	6.0		
	234	POTS	4 S/F	0826.8	0827.1	.4	340.0	25.0		
	410	LEAR	8 S	0828.8	0829.0	.3	30.0			
	2650	DWIN	3 S	0832.0	0832.0	1.0	80.0	40.0		
	204	IZMI	5 S	0851.5	0851.5	.5	400.0	300.0		
	606	LEAR	8 S	0920.1	0920.3	.5	22.0			
	536	ONDR	8 S	0920.5	0921.0	1.5	15.0			
	11800	BERN	4 S/F	0953.0	0953.5	4.0	15.0			
	8400	BERN	4 S/F	0953.0	0953.5	2.0	22.0			
	9500	POTS	3 S	0953.0	0953.5	2.0	16.0			
	5200	BERN	4 S/F	0953.0	0953.5	2.0	15.0			
	3200	BERN	4 S/F	0953.0	0953.8	2.0	14.0			
	3000	POTS	4 S/F	0953.0	0954.0	2.8	16.0			
	9100	GORK	1 S	0953.1	0953.6	1.3	21.0	10.0		
	6100	KISV	4 S/F	0953.2	0953.7	1.0	15.0			
	2950	GORK	1 S	0953.2	0954.4	1.9	17.0	8.0		
	2650	DWIN	1 S	0954.0	0954.0	1.0	20.0	10.0		
	234	POTS	4 S/F	1030.1	1030.2	.2	250.0	25.0		III
	15000	KISV	4 S/F	1048.5	1050.0U	5.0	82.0D			
	9500	POTS	29 PBI	1048.5	1050.0	46.0	151.0			
	8800	ATHN	4 S/F	1048.8	1050.3	5.2	139.0			
	11800	BERN	4 S/F	1049.0	1050.2	5.0	219.0			

SOLAR RADIO EMISSION
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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
04	8400	BERN	4 S/F	1049.0	1050.2	11.0	128.0			
	6100	KISV	4 S/F	1049.0	1050.2	7.0	103.0D			
	3200	BERN	4 S/F	1049.0	1050.2	11.0D	36.0			
	19600	BERN	4 S/F	1049.0	1050.2	5.0	170.0			
	5200	BERN	4 S/F	1049.0	1050.2	11.0D	56.0			
	9100	GORK	4 S/F	1049.1	1050.2	4.5	142.0			
	2695	ATHN	4 S/F	1049.3	1050.3	4.7D	46.0			
	4995	ATHN	4 S/F	1049.3	1050.3	4.7	71.0			
	35000	BERN	4 S/F	1049.5	1050.2	3.0	80.0			
	3000	POTS	29 PBI	1049.5	1050.3	36.0	49.0			
	2950	GORK	3 S	1049.6	1050.2	1.6	38.0	19.0		
	2650	DWIN	1 S	1050.0	1050.0	2.0	40.0	20.0		
	234	POTS	41 F	1053.8	1054.2	.5	250.0	10.0		III
	6100	KISV	2 S/F	1106.0	1109.6	8.0	16.0			
	33	UPIC	42 SER	1108.0	1206.0	63.2				
	29	UPIC	42 SER	1108.1	1206.2	62.9				
	9100	GORK	1 S	1108.2	1109.7	4.4	20.0	10.0		
	430	KRAK	8 S	1123.0	1123.0	.2	17.0			
	808	ONDR	8 S	1139.5	1140.5	1.0	42.0			
	930	BORD	41 F	1139.9	1140.0	.7	148.0	2.0		
	810	KRAK	8 S	1140.2	1140.2	.2	20.0			
	3100	CRIM	1 S	1150.0	1150.2	3.0	43.0	14.0		
	430	KRAK	8 S	1205.7	1205.8	.3	64.0			
	7000	SAOP	28 PRE	1223.1		3.1	3.0	1.0		
	7000	SAOP	1 S	1226.2	1227.2	1.8	9.0	4.0		0
	7000	SAOP	29 PBI	1227.9	1228.2	4.7	6.0	3.0		
	7000	SAOP	2 S/F	1236.7		3.7	6.0	3.0		0
	430	KRAK	4 S/F	1242.4	1244.4	5.0	55.0	13.0		
	410	SGMR	4 S/F	1243.6	1244.6	2.4	29.0			
	260	ONDR	8 S	1259.5	1301.0	2.0	185.0U			
	536	ONDR	40 F	1300.0	1301.0	3.0	13.0	2.0		
	234	POTS	4 S/F	1300.6	1301.3	.7	350.0	35.0		III
	430	KRAK	8 S	1345.7	1345.7	.1	19.0			
	234	POTS	4 S/F	1426.7	1426.8	.2	300.0	50.0		
	234	POTS	42 SER	1433.4	1433.4	3.3	1000.0	10.0		
	234	POTS	4 S/F	1441.6	1441.7	.3	400.0	40.0		
	8800	SGMR	8 S	1605.3	1605.6	2.0D	26.0			
	9400	HUAN	3 S	1605.3	1605.8	1.6	29.2	11.6		0
	7000	SAOP	3 S	1605.3	1605.8	.7	34.0	17.0		1IL
	2800	OTTA	3 S	1605.5	1605.8	1.5	19.8	6.6		
	4995	SGMR	8 S	1605.6	1605.6	1.9D	36.0			
	2695	SGMR	8 S	1605.6	1605.8	.9	29.0			
	7000	SAOP	29 PBI	1606.0	1606.0	.7	9.0	4.0		
	9400	HUAN	29 PBI	1606.9	1606.9	22.6	4.9	2.0		0
	2800	OTTA	29 PBI	1607.0	1607.0	35.0	4.2	3.7		
	2800	OTTA	1 S	1736.0	1738.5	6.0	4.2	1.4		
	245	SGMR	8 S	1738.0	1738.5	1.0D	86.0			
	606	SGMR	8 S	1738.0	1738.5	.8D	190.0			
	410	SGMR	8 S	1738.1	1738.3	.5	110.0			
	606	SGMR	8 S	1759.6	1759.8	.5	59.0			
	606	SGMR	4 S/F	1803.5	1805.3	2.3D	47.0			
	410	SGMR	4 S/F	1803.6	1803.6	2.2	100.0			
	7000	SAOP	4 S/F	1803.9	1805.2	2.1	12.0	6.0		18L
	4995	SGMR	8 S	1805.0	1805.1U	.1D	13.0U			
	9400	HUAN	23 GRF	1820.3	1836.5	111.4	51.9	9.2		L
	2695	SGMR	49 GB	1824.1	1828.6	15.9D	160.0			
	9400	HUAN	3 S	1824.3	1825.0	1.3	27.6	11.6		L
	8800	SGMR	49 GB	1824.3	1828.3	13.7D	740.0			
	7000	SAOP	47 GB	1824.4	1828.7	7.0	500.0	250.0		12L
	2800	OTTA	4 S/F	1824.5	1828.8	14.5	198.0	34.0		
	4995	SGMR	49 GB	1824.6	1828.6	14.4D	370.0			
	15400	SGMR	49 GB	1826.6	1828.3	12.0D	740.0			
	9400	HUAN	45 C	1826.9	1828.5	4.5	952.1	279.5		L
	606	SGMR	49 GB	1827.0	1829.1	14.1D	93.0			
	410	SGMR	49 GB	1827.1	1828.1	10.0D	1800.0			
	8800	PALE	47 GB	1827.1	1828.3	4.0	810.0			
	4995	PALE	4 S/F	1827.1	1828.6	4.0	310.0			
	15400	PALE	47 GB	1827.3	1828.3	4.0	700.0			
	2695	PALE	4 S/F	1827.3	1828.6	4.0	180.0			
	1415	PALE	4 S/F	1827.5	1829.5	6.8	139.0			
	1415	SGMR	49 GB	1827.5	1829.8	13.6D	150.0			
	245	SGMR	49 GB	1828.0	1829.1	6.0	1399.0			
	7000	SAOP	29 PBI	1831.5	1836.6	18.2	55.0	22.0		
	8800	PALE	8 S	1836.3	1836.3	.7	30.0			
	4995	PALE	8 S	1836.3	1836.3	.7	21.0			
	1415	PALE	8 S	1836.3	1836.6	.5	18.0			
	2800	OTTA	29 PBI	1839.0	1839.0	20.0	5.0	3.0		
	606	SGMR	8 S	1905.0	1905.1	.5D	48.0			
	410	SGMR	8 S	1905.0	1905.1	.3D	52.0			
	2800	OTTA	20 GRF	1905.0	1950.0	80.0	9.6	3.6		
	245	SGMR	8 S	1905.1	1905.1	.2	119.0			
	606	SGMR	8 S	1936.6	1937.1	.7D	38.0			
	410	SGMR	8 S	1936.8	1937.1	.5	100.0			
	410	SGMR	47 GB	1943.8	1944.1	.8D	100.0			
	606	SGMR	47 GB	1943.8	1944.1	6.7D	119.0			
	245	SGMR	8 S	1944.1	1944.1	.2	330.0			
	606	SGMR	8 S	2014.8	2015.0	2.0D	78.0			
	410	SGMR	8 S	2016.3	2016.5	.2	84.0			
	9400	HUAN	2 S/F	2130.3	2131.2	1.9	19.4	8.1		L
	8800	PALE	8 S	2130.8	2131.1	.3	20.0			
	245	LEAR	8 S	2216.3	2216.6	.8	220.0			

SOLAR RADIO EMISSION
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	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
04	410	LEAR	8 S	2216.5	2216.6	.3	10.0			
	606	LEAR	8 S	2216.5	2216.6	.3	16.0			
	9400	TYKW	21 GRF	2220.0	2238.0	85.0	6.0	2.0		
	3750	TYKW	21 GRF	2220.0	2246.0	85.0	8.0	4.0		
	2000	TYKW	20 GRF	2220.0	2305.0	85.0	4.0	2.0		
	410	LEAR	8 S	2222.8	2223.3	1.0	31.0			
	245	LEAR	8 S	2223.1	2223.6	.7	95.0			
	8800	PALE	8 S	2236.6	2236.8	.2	16.0			
	9400	TYKW	5 S	2236.6	2236.9	1.0	11.0	3.0		
	245	LEAR	8 S	2253.8	2254.3	1.5	119.0			
	410	LEAR	8 S	2254.0	2254.3	.8	19.0			
	410	LEAR	8 S	2300.0	2300.1	.3	130.0			
	606	LEAR	8 S	2300.1	2300.1	.2	49.0			
	245	LEAR	8 S	2300.1	2300.3	.5	30.0			
	3750	TYKW	20 GRF	2303.0	2314.0	35.0	6.0	3.0		
	606	LEAR	8 S	2303.8	2304.0	.3	22.0			
	410	LEAR	8 S	2303.8	2304.1	.3	95.0			
	245	LEAR	8 S	2304.0	2304.1	.6	62.0			
	410	LEAR	4 S/F	2307.1	2309.0	2.2	119.0			
	606	LEAR	8 S	2307.8	2308.3	1.5	310.0			
	9400	TYKW	20 GRF	2310.0	2315.0	30.0	7.0	1.5		
	245	LEAR	8 S	2346.8	2347.1	.5	48.0			
	606	LEAR	8 S	2346.8	2347.1	.3	07.0			
	410	LEAR	8 S	2347.0	2347.1	.1	16.0			
	3750	TYKW	21 GRF	2348.0	2357.0	30.0	4.0	2.0		
	3750	TYKW	5 S	2349.0	2350.7	4.0	3.0	1.0		
	245	LEAR	8 S	2349.1	2349.5	.7	83.0			
	606	LEAR	8 S	2349.1	2350.6	2.0	10.0			
	410	LEAR	8 S	2349.1	2350.6	2.0	21.0			
05	100	GORK	44 NS	0514.0E		40.0D		70.0		
	200	GORK	44 NS	0514.0E		402.0D		60.0		
	127	TORN	44 NS	0630.0E		130.0D				V1
	204	IZMI	44 NS	0700.0E		300.0D	86.0			
	260	ONDR	44 NS	0753.0E		377.0D	168.0D			
	245	SGMR	43 NS	1145.0	1421.0	564.0D	260.0			
	100	HIRA	44 NS	2100.0E	2200.0	630.0D	300.0	80.0		SR
	200	HIRA	44 NS	2100.0E	2217.0	630.0D	240.0	80.0		SR
	410	LEAR	43 NS	2154.0	0004.8	747.0	48.0			
	245	LEAR	43 NS	2154.0	0359.3	747.0	550.0			
	208	VORO	44 NS	2300.0E		240.0D		78.0		
	2840	PEKG	1 S	0010.0	0012.2	4.0	6.2	1.6		
	9400	TYKW	5 S	0021.0	0021.6	5.0	4.0	1.5		
	1000	TYKW	45 C	0030.0	0031.3	3.0	28.0	5.0		
	2000	TYKW	45 C	0030.0	0031.4	3.0	22.0	4.0		
	2930	VORO	3 S	0030.0	0032.0	4.0	34.0			
	3750	TYKW	21 GRF	0030.0	0040.0	95.0	4.0	2.0		
	2000	TYKW	21 GRF	0030.0	0110.0	90.0	3.0	1.5		
	3750	TYKW	5 S	0030.5	0031.2	2.5	12.0	3.0		
	9400	TYKW	5 S	0030.5	0031.2	2.5	9.0	5.0		
	17000	NOBE	1 S	0030.8	0031.0	2.0	21.0			L
	606	MANI	4 S/F	0031.0	0031.4	2.8	81.6	27.2		
	2695	MANI	3 S	0031.4	0032.0	.9	25.3	8.4		
	1415	MANI	3 S	0031.5	0032.0	2.3	67.2	22.2		
	2000	TYKW	29 PBI	0033.0		5.0	2.0	1.0		
	9400	TYKW	29 PBI	0033.0		20.0	3.0	1.5		
	3750	TYKW	21 GRF	0102.0	0110.0	40.0	3.0	1.5		
	9400	TYKW	21 GRF	0105.0	0110.0	30.0	3.0	1.5		
	9400	TYKW	5 S	0110.5	0111.1	1.5	5.0	1.5		
	3750	TYKW	45 C	0117.0	0119.4	4.0	35.0	8.0		
	1000	TYKW	5 S	0117.8	0118.0	.6	2.0	.7		
	2930	VORO	3 S	0118.0	0119.0	4.0	62.0			
	9400	TYKW	5 S	0118.0	0119.3	3.0	6.0	1.5		
	2000	TYKW	5 S	0118.0	0119.5	3.0	30.0	7.0		
	1000	TYKW	5 S	0118.5	0119.8	6.0	15.0	4.0		
	2840	PEKG	5 S	0119.0	0119.4	3.0	12.1	1.7		
	1415	MANI	3 S	0119.4	0120.2	2.6	56.0	18.7		
	4995	MANI	3 S	0119.4	0120.2	1.1	32.6	10.9		
	606	MANI	4 S/F	0119.4	0120.2	3.6	17.9	6.0		
	2695	MANI	3 S	0119.4	0120.2	1.6	42.1	14.0		
	3750	TYKW	29 PBI	0121.0		10.0	5.0	2.0		
	2000	TYKW	29 PBI	0121.0		5.0	3.5	1.5		
	2930	VORO	45 C	0210.0	0212.0	9.0	170.0D			
	3750	TYKW	45 C	0210.0	0212.2	9.0	175.0	25.0		
	200	HIRA	46 C	0210.6	0212.2	4.3	1170.0	260.0		WR
	3395	PEKG		0211.0	0211.9		208.0			
	9400	TYKW	45 C	0211.0	0211.9	8.0	275.0	50.0		
	2840	PEKG		0211.0	0212.0		81.0			
	606	MANI	4 S/F	0211.0	0212.2	11.0	111.0	37.0		
	2840	PEKG		0211.0	0212.3		88.0	17.2		
	1415	MANI	4 S/F	0211.0	0212.5	9.0	114.4	38.2		
	208	VORO	46 C	0211.0	0212.5	4.5	100.0D			
	2000	TYKW	45 C	0211.0	0212.5	8.0	142.0	34.0		
	1000	TYKW	45 C	0211.0	0212.6	12.0	81.0	20.0		
	35000	NAGO	5 S	0211.0	0213.0	3.0	34.0			
	9395	PEKG	45 C	0211.0	0214.1	6.0	78.0	48.0		
	2840	PEKG		0211.0	0214.2	11.0	44.0			
	208	VORO		0211.0	0214.5		100.0D			
	500	HIRA	45 C	0211.3	0213.8	8.0	230.0	30.0		SR
	17000	NOBE	7 C	0211.5	0212.3	6.5	164.0			L
	2695	MANI	4 S/F	0211.5	0212.5	4.0	148.5	49.5		

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	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
05	4995	MANI	4	S/F	0211.5	0212.5	3.2	211.9	70.6		
	8800	MANI	4	S/F	0211.5	0212.5	3.2	217.2	72.4		
	9395	PEKG	29	PBI	0217.0		7.0	12.0	4.8		
	9400	TYKW	29	PBI	0219.0		8.0	6.0	2.0		
	3750	TYKW	29	PBI	0219.0		11.0	2.0	1.0		
	2000	TYKW	29	PBI	0219.0		10.0	2.0	.7		
	2840	PEKG	45	C	0233.0	0235.1	10.0	20.0	4.1		
	9395	PEKG	1	S	0234.0	0235.0	4.0	4.4			
	2930	VORO	3	S	0234.0	0235.0	4.0	44.0			
	2000	TYKW	21	GRF	0234.0	0245.0	50.0	2.0	1.0		
	3750	TYKW	21	GRF	0234.0	0245.0	220.0	5.0	2.5		
	9400	TYKW	21	GRF	0234.0	0246.0	50.0	3.0	1.5		
	3750	TYKW	45	C	0234.5	0235.2	4.5	22.0	7.0		
	9400	TYKW	5	S	0234.5	0235.2	3.5	7.0	2.0		
	2000	TYKW	5	S	0234.5	0235.3	4.0	15.0	4.0		
	3750	TYKW	5	S	0323.7	0323.9	.5	2.0	.7		
	2000	TYKW	5	S	0333.0	0333.8	4.0	1.5	.5		
	3750	TYKW	5	S	0355.0	0356.2	5.0	3.0	1.0		
	1000	TYKW	5	S	0407.0	0409.0	5.0	2.0	1.0		
	2000	TYKW	5	S	0407.0	0410.0	8.0	9.0	2.5		
	3750	TYKW	45	C	0407.0	0415.0	20.0	4.0	2.0		
	2000	TYKW	21	GRF	0407.0	0420.0	130.0	5.0	2.0		
	606	LEAR	8	S	0411.5	0411.6	.5	24.0			
	3750	TYKW	21	GRF	0429.0	0435.0	40.0	4.0	1.5		
	9400	TYKW	5	S	0433.0	0436.0	6.0	8.0	5.0		
	9400	TYKW	29	PBI	0439.0		30.0	4.0	2.0		
	3750	TYKW	5	S	0443.0	0444.3	5.0	2.0	.7		
	3750	TYKW	20	GRF	0523.0	0535.0	30.0	3.0	1.5		
	9395	PEKG	5	S	0701.0	0701.6	4.4	21.0	8.1		
	9100	GORK	1	S	0701.2	0701.5	2.2	12.0	6.0		
	204	IZMI	5	S	0722.7	0722.8	.3	400.0	300.0		
	9395	PEKG			0729.0	0732.2	53.0				
	9395	PEKG	45	C	0729.0	0733.7	9.0	68.0	13.4		
	2840	PEKG	45	C	0730.0	0732.2	10.0	60.0	13.0		
	9100	GORK	46	C	0730.5	0732.1	7.5	57.0			
	3000	POTS	4	S/F	0730.5	0732.3	6.5	44.0			
	9100	GORK			0730.5	0733.7		71.0			
	5200	BERN	45	C	0731.0	0732.0	3.0	42.0			
	3200	BERN	3	S	0731.0	0732.0	2.0	34.0			
	11800	BERN	45	C	0731.0	0733.5	3.0	94.0			
	8400	BERN	45	C	0731.0	0733.5	3.0	77.0			
	950	GORK	21	GRF	0731.4	0733.5	10.4	5.0			
	3000	IZMI	5	S	0731.5	0732.0	1.5	52.0	35.0		
	3100	CRIM	1	S	0731.5	0732.2	3.0	45.0	15.0		
	1470	POTS	3	S	0731.5	0732.4	3.5	20.0			
	606	MANI	4	S/F	0731.5	0733.0	3.5	20.3	6.8		
	9500	POTS	4	S/F	0731.5	0733.7	4.5	60.0			
	2950	GORK	4	S/F	0731.6	0732.2	3.0	39.0			
	650	GORK	4	S/F	0731.7	0732.3	4.1	17.0	3.0		
	113	POTS	4	S/F	0731.9	0732.1	1.4	1500.0	250.0		III
	950	GORK	3	S	0731.9	0732.3	1.3	17.0			
	234	POTS	42	SER	0731.9	0733.9	2.0	250.0	4.0		III
	2650	DWIN	2	S/F	0732.0	0732.0	3.0	40.0	20.0		
	4995	MANI	4	S/F	0732.0	0732.5	2.7	32.6	10.9		
	8800	MANI	4	S/F	0732.0	0732.5	2.5	92.4	30.8		
	2695	MANI	4	S/F	0732.0	0732.6	2.0	79.2	26.4		
	204	IZMI	41	F	0732.1	0732.5	3.3	370.0			
	204	IZMI	41	F	0750.5	0750.8	2.5	380.0			
	430	KRAK	42	SER	0755.0	0817.2	29.0	170.0			
	3000	POTS	4	S/F	0831.0	0832.5	14.0	194.0			
	2650	DWIN	45	C	0831.0	0834.0	13.0	200.0	80.0		
	1470	POTS	4	S/F	0831.0	0837.0	24.0	118.0			
	2950	GORK	45	C	0831.4	0832.1	7.5	16.0			
	2950	GORK			0831.4	0833.1		90.0D			
	2950	GORK			0831.4	0834.1		88.0			
	2950	GORK			0831.4	0836.4		98.0			
	9500	POTS	4	S/F	0831.5	0832.0	24.0	297.0			
	8400	BERN	45	C	0831.5	0833.0	13.0	336.0			
	11800	BERN	45	C	0831.5	0833.1	13.0	333.0			
	3100	CRIM	45	C	0831.5	0833.2	15.0	217.0	72.0		
	3200	BERN	45	C	0831.5	0833.2	13.0	166.0			
	5200	BERN	45	C	0831.5	0833.2	13.0	244.0			
	9100	GORK	46	C	0831.5	0833.3	12.3	225.0			
	3100	CRIM			0831.5	0834.5		178.0			
	650	GORK	4	S/F	0831.5	0835.0U	8.0	78.0			
	9100	GORK			0831.5	0836.1		140.0			
	200	GORK	41	F	0831.6	0833.2	5.4	510.0D			
	200	GORK			0831.6	0836.5		510.0			
	950	GORK	46	C	0831.7	0836.9	16.5	340.0			
	950	GORK			0831.7	0842.6		167.0			
	930	BORD	46	C	0831.8	0836.8U	17.2	2882.0	28.0		
	606	MANI	4	S/F	0832.0	0834.9	7.0	263.3	87.8		
	810	KRAK	45	C	0833.0	0833.0	14.5	120.0	57.0		
	430	KRAK	45	C	0833.0	0833.0	8.5	220.0	22.0		
	100	GORK	46	C	0833.0	0833.1	1.0	10600.0			
	19600	BERN	45	C	0833.0	0833.1	9.0	192.0			
	234	POTS	41	F	0833.0	0833.1	8.8	5300.0	60.0		III
	35000	BERN	45	C	0833.0	0833.3	9.0	130.0			
	113	POTS	4	S/F	0833.0	0833.5	3.9	600.0	25.0		III
	3000	IZMI	7	C	0833.0	0833.5	5.6	190.0	83.0		
	4995	MANI	4	S/F	0833.0	0833.6	5.0	280.2	93.4		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1981

	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	POLARIZATION OR REMARKS
05	100	GORK			0833.0	0834.7		2300.0			
	430	KRAK			0833.0	0834.7		240.0			
	536	ONDR	46	C	0833.0	0836.5	6.0	156.0	18.0		
	430	KRAK			0833.0	0836.5U		760.0D			
	808	ONDR	40	F	0833.0	0839.0	7.5	212.0	24.0		
	810	KRAK			0833.0	0842.7		450.0			
	8800	MANI	4	S/F	0833.1	0833.6	3.9	263.9	88.0		
	1415	MANI	4	S/F	0833.1	0835.1	5.9	186.3	62.1		
	29	UPIC	4	S/F	0833.2	0833.4	1.0				
	204	IZMI	41	F	0833.2	0833.5	4.1	680.0			
	2695	MANI	4	S/F	0833.2	0834.0	5.3	208.6	69.5		
	33	UPIC	4	S/F	0833.3	0833.4	.6				
	2950	GORK	29	PBI	0837.7	0837.7	230.0	26.0			
	650	GORK	29	PBI	0839.5	0839.5	16.0	9.0	4.5		
	808	ONDR	47	GB	0840.5	0843.5	5.0	122.0	59.0		
	3100	CRIM	26	FAL	0847.0	1048.0	121.0	9.0	3.0		
	430	KRAK	8	S	0856.2	0856.2	.2	72.0			
	33	UPIC	45	C	0941.8	0942.1	1.2				
	29	UPIC	45	C	0942.2U	0942.5	1.3U				
	204	IZMI	41	F	1015.0	1019.0	10.0	430.0			
	9100	GORK	3	S	1016.2	1019.0	5.6	48.0	24.0		
	950	GORK	22	GRF	1017.7	1025.0	15.0	2.5			
	33	UPIC	46	C	1017.8		2.7				
	650	GORK	22	GRF	1017.8	1018.9	11.1	6.0			
	650	GORK			1017.8	1025.4		16.0			
	100	GORK	46	C	1018.0	1018.2	3.9	500.0D			
	9500	POTS	3	S	1018.0	1018.7	3.0	37.0			
	100	GORK			1018.0	1018.9		500.0D			
	200	GORK	4	S/F	1018.0	1018.9	2.0	450.0D			
	536	ONDR	40	F	1018.0	1019.0	8.0	16.0	2.0		
	29	UPIC	46	C	1018.0	1019.1	3.2				
	100	GORK			1018.0	1020.6		500.0D			
	810	KRAK	8	S	1018.1	1018.2	.2	18.0			
	930	BORD	41	F	1018.2	1018.4	1.9	40.0	2.0		
	430	KRAK	8	S	1018.4	1018.7	.8	230.0			
	6100	KISV	8	S	1018.6	1019.0	1.5	19.0			
	430	KRAK	42	SER	1114.1	1123.1	30.0	160.0			
	200	GORK	7	C	1142.8	1150.2	11.1	1900.0			
	200	GORK			1142.8	1153.2		680.0			
	536	ONDR	46	C	1146.0	1151.0	9.0	98.0	10.0		
	650	GORK	4	S/F	1146.2	1150.1U	6.2	36.0D			
	430	KRAK	45	C	1147.7	1148.5	7.1	510.0	27.0		
	430	KRAK			1147.7	1149.9		510.0			
	228	HARS	46	C	1148.7	1149.9	5.2	475.0	85.0		
	810	KRAK	4	S/F	1148.7	1150.2	3.5	56.0	5.0		
	234	POTS	4	S/F	1148.8	1150.2	5.1	400.0	80.0		III
	204	IZMI	41	F	1148.8	1150.3	6.2	1500.0			
	113	POTS	4	S/F	1148.9	1150.4	4.9	2250.0	225.0		III
	3000	POTS	3	S	1149.0	1150.5	2.5	12.0			
	1470	POTS	4	S/F	1149.0	1150.6	2.6	93.0			
	100	GORK	46		1149.2	1149.4	1.3	10800.0D			
	100	GORK			1149.2	1149.9		10800.0D			
	808	ONDR	4	S/F	1149.5	1151.0	2.0	30.0	8.0		
	950	GORK	4	S/F	1149.8	1150.0	1.5	26.0			
	930	BORD	46	C	1149.8	1150.4	2.6	81.0	4.0		
	7000	SAOP	1	S	1149.8	1150.5	1.6	6.0	3.0		0
	6100	KISV	4	S/F	1150.0	1150.3	1.5	4.0			
	1415	ATHN	8	S	1154.3	1155.3	2.0	48.0			
	430	KRAK	42	SER	1216.4	1226.2	32.5	370.0			
	430	KRAK			1216.4	1242.9		270.0			
	234	POTS	4	S/F	1216.6	1216.9	.5	1450.0	50.0		
	536	ONDR	8	S	1225.0	1225.5	1.5	29.0			
	930	BORD	8	S	1225.8	1226.1	.4	19.0	2.0		
	3200	BERN	4	S/F	1237.2	1238.5	13.0	57.0			ONLY PAPER REC
	5200	BERN	4	S/F	1237.2	1239.1	13.0	53.0			ONLY PAPER REC
	245	SGMR	4	S/F	1237.3	1238.8	6.0	83.0			
	3000	POTS	42	SER	1237.5	1238.8	14.0	75.0			
	7000	SAOP	45	C	1237.5	1239.8	3.8	62.0	31.0		27L
	1470	POTS	42	SER	1237.5	1240.0	16.0	43.0			
	2650	DWIN	4	S/F	1238.0	1238.0	5.0	70.0	30.0		
	536	ONDR	46	C	1238.0	1239.0	5.5	52.0	6.0		
	808	ONDR	20	GRF	1238.0	1239.0	4.5	15.0	12.0		
	9400	HUAN	4	S/F	1238.0	1239.6	3.1	39.1	25.3		L
	930	BORD	3	S	1238.0	1240.0	4.0	19.0	9.0		
	4995	ATHN	4	S/F	1238.1	1239.6	4.7D	34.0			
	410	SGMR	4	S/F	1238.1	1243.1	5.7D	08.0			
	2800	OTTA	4	S/F	1238.3	1238.8	3.0	62.0	47.0		
	8800	ATHN	4	S/F	1238.3	1239.6	3.8	77.0			
	9500	POTS	42	SER	1238.4	1238.7	12.0	26.0			
	9500	POTS			1238.4	1239.6		26.0			
	2695	ATHN	4	S/F	1238.5	1238.8	4.5D	81.0			
	1415	ATHN	4	S/F	1238.5	1239.6	4.5D	05.0			
	4995	SGMR	4	S/F	1238.6	1238.8	2.7D	51.0			
	2695	SGMR	4	S/F	1238.6	1238.8	2.5D	81.0			
	8800	SGMR	4	S/F	1238.6	1239.6	2.5D	41.0			
	15400	SGMR	8	S	1238.6	1239.8	1.4D	40.0			
	1415	SGMR	4	S/F	1238.6	1239.8	2.7D	63.0			
	606	SGMR	8	S	1238.8	1240.3U	1.5D	20.0U			
	7000	SAOP	29	PBI	1241.8	1247.5	10.0	12.0	6.0		
	228	HARS	47	GB	1242.1	1244.2	2.9	95.0	35.0		
	234	POTS	4	S/F	1242.3	1244.6	3.4	100000.0	7000.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1981

	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
05	2650	DWIN	2 S/F	1245.0	1247.0	5.0	20.0	8.0		
	430	KRAK	41 F	1320.6	1322.6	4.6	28.0			
	2650	DWIN	2 S/F	1405.0	1407.0	4.0	25.0	10.0		
	2800	OTTA	21 GRF	1415.0	1425.0	45.0D	3.8			
	7000	SAOP	3 S	1447.0	1448.4	3.3	273.0	136.0		IIL
	5200	BERN	3 S	1447.5	1448.0	2.0	120.0			ONLY PAPER REC
	3200	BERN	3 S	1447.5	1448.0	2.0	90.0			ONLY PAPER REC
	8800	SGMR	8 S	1447.8	1448.3	1.5D	230.0			
	4995	SGMR	8 S	1447.8	1448.3	1.3D	130.0			
	2650	DWIN	3 S	1448.0	1448.0	1.0	70.0	30.0		
	15400	SGMR	8 S	1448.0	1448.3	.8D	119.0			
	2695	SGMR	8 S	1448.0	1448.3	.5	70.0			
	2800	OTTA	3 S	1448.0	1448.4	1.8	89.0	25.0		
	7000	SAOP	29 PBI	1450.0	1450.1	4.8	12.0	6.0		
	2800	OTTA	8 S	1731.9	1732.0	.5	6.8			
	2800	OTTA	20 GRF	1825.0	1830.0	22.0	3.8	1.9		
	3750	TYKW	45 C	2310.0	2313.3	14.0	13.0	4.0		
	9400	TYKW	45 C	2312.0U	2316.0U	12.0U	15.0U	6.0U		RAIN
	4995	LEAR	47 GB	2312.8	2313.1	5.8	26.0			
	4995	PALE	8 S	2313.0	2313.1	1.6	22.0			
	8800	LEAR	47 GB	2313.0	2314.8	8.3	23.0			
	8800	PALE	47 GB	2314.5	2314.6	1.3	21.0			
	15400	LEAR	4 S/F	2315.8	2316.8	5.5	19.0			
	3750	TYKW	29 PBI	2324.0		20.0	2.0	1.0		
	606	LEAP	8 S	2351.8	2352.1	.3	16.0			
	3750	TYKW	45 C	2354.0	2358.8	15.0	5.0	1.5D		
06	200	GORK	44 NS	0504.0E		212.0D		50.0		
	100	GORK	44 NS	0506.0E		186.0D		10.0		
	204	IZMI	44 NS	0700.0E		300.0D	64.0			
	260	ONDR	44 NS	0757.0E		370.0D	202.0D			
	127	TORN	44 NS	0830.0E	0912.8	390.0D	4700.0	34.0		V1
	245	SGMR	43 NS	1146.0	1349.0	562.0D	1300.0			
	200	HIRA	44 NS	2105.0E	0540.0	630.0D	10.0	8.0		WR
	245	LEAR	43 NS	2154.0	0435.6	695.0	190.0			
	208	VORO	44 NS	2300.0E		240.0D		17.0		
	500	HIRA	46 C	0000.4	0001.3	1.7	120.0	50.0		SR
	9400	TYKW	5 S	0000.5	0001.6	2.0	65.0	9.0		RAIN
	200	HIRA	46 C	0000.7	0003.6	4.6	5300.0	750.0		MR
	8800	PALE	8 S	0001.1	0001.5	.5	97.0			
	410	LEAR	8 S	0001.1	0001.5	1.0	26.0			
	15400	PALE	8 S	0001.3	0001.3	.2	32.0			
	8800	LEAR	8 S	0001.3	0001.5	.3	76.0			
	2695	LEAR	8 S	0001.3	0001.5	.2	13.0			
	4995	LEAR	8 S	0001.3	0001.5	.3	39.0			
	4995	PALE	8 S	0001.3	0001.5	.3	44.0			
	15400	LEAR	8 S	0001.3	0001.5	.3	32.0			
	2695	MANI	3 S	0001.3	0001.9	1.1	28.6	9.5		
	606	LEAR	47 GB	0001.3	0002.0	1.0	520.0			
	2000	TYKW	5 S	0001.4	0001.6	1.5	11.0	2.0		
	606	MANI	4 S/F	0001.4	0002.4	2.6	276.0	92.0		
	4995	MANI	3 S	0001.5	0001.9	.9	49.3	16.4		
	208	VORO	4 S/F	0001.5	0002.0	4.0	100.0D			
	8800	MANI	3 S	0001.5	0002.0	.9	81.3	27.1		
	1415	MANI	2 S/F	0001.5	0003.3	2.0	7.1	2.4		
	245	LEAR	8 S	0001.8	0001.8	.5	240.0			
	9400	TYKW	5 S	0017.5	0017.8	1.5	5.0	1.5		RAIN
	2000	TYKW	20 GRF	0030.0	0110.0	100.0	3.0	1.5		
	3750	TYKW	20 GRF	0030.0	0123.0	100.0	9.0	3.0		
	245	LEAR	8 S	0111.5	0111.6	.3	29.0			
	410	LEAR	8 S	0111.5	0111.6	.3	13.0			
	3750	TYKW	5 S	0220.3	0220.8	1.0	3.0	1.0		
	2000	TYKW	21 GRF	0230.0	0245.0	230.0	6.0	3.0		
	3750	TYKW	21 GRF	0230.0	0252.0	230.0	11.0	5.0		
	9400	TYKW	20 GRF	0240.0U	0300.0	220.0U	8.0	4.0U		RAIN
	2000	TYKW	20 GRF	0400.0	0436.5	100.0	3.0	1.0		
	606	LEAR	8 S	0430.5	0430.6	.5	139.0			
	3750	TYKW	20 GRF	0435.0	0510.0	70.0	4.0	2.0		
	1000	TYKW	5 S	0545.0	0545.1	.5	4.0	1.5		
	1000	TYKW	5 S	0553.4	0553.6	.5	10.0	3.0		
	606	LEAR	8 S	0624.5	0624.6	.3	119.0			
	6100	KISV	3 S	0736.0	0736.7	1.5	5.0			
	606	LEAR	4 S/F	0750.6	0750.8	2.7	75.0			
	410	LEAR	4 S/F	0750.6	0752.1	2.5	130.0			
	245	LEAR	4 S/F	0750.6	0752.3	3.2	300.0			
	1470	POTS	40 F	0752.0	0752.4	1.5	5.0			
	410	LEAR	8 S	0756.6	0756.8	.2	100.0			
	410	LEAR	8 S	0810.0	0810.1	.8	20.0			
	606	LEAR	8 S	0810.0	0810.3	.5	21.0			
	113	POTS	4 S/F	0810.0	0810.3	1.1	525.0	35.0		III
	245	LEAR	8 S	0810.1	0810.1	.4	400.0			
	234	POTS	8 S	0810.2	0810.3	.4	250.0	80.0		III
	430	KRAK	8 S	0810.9	0811.2	.4	160.0			
	810	KRAK	8 S	0811.3	0811.3	.2	15.0			
	430	KRAK	8 S	0823.8	0823.8	.2	16.0			
	810	KRAK	8 S	0824.1	0824.1	.2	17.0			
	536	ONDR	4 S/F	0829.5	0830.5	2.0	58.0	6.0		
	650	GORK	4 S/F	0829.6	0830.2	2.3	36.0	9.0		
	930	BORD	46 C	0829.6	0830.6	2.4	157.0	8.0		
	950	GORK	4 S/F	0829.6	0830.8	1.8	51.0			
	606	LEAR	8 S	0829.8	0830.1	.5	240.0			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1981

	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
06	1470	POTS	3 S	0830.0	0830.6	1.5	21.0			III
	808	ONDR	2 S/F	0830.0	0832.5	2.5	15.0	9.0		
	410	LEAR	8 S	0830.1	0830.1	1.7	200.0			
	245	LEAR	47 GB	0830.1	0830.5	.5	910.0			
	1415	LEAR	8 S	0830.1	0830.5	1.0	30.0			
	810	KRAK	4 S/F	0830.3	0831.3	2.8	96.0	24.0		
	245	LEAR	8 S	0912.3	0912.6	.7	89.0			
	113	POTS	4 S/F	0912.5	0912.7	1.3	3000.0	200.0		III
	234	POTS	4 S/F	0912.6	0912.7	.3	770.0	65.0		III
	204	IZMI	4 S/F	0912.6	0913.0	.5	1350.0	1000.0		
	536	ONDR	40 F	0923.0	0926.5	5.0	49.0	2.0		
	810	KRAK	8 S	0924.6	0924.6	.2	10.0			
	930	BORD	8 S	0926.3	0926.3	.1	20.0	2.0		
	430	KRAK	42 SER	0928.7	0938.3	53.0	750.0D			
	430	KRAK		0928.7	1016.4		70.0			
	204	IZMI	41 F	0930.8	0937.0	8.0	1000.0			
	113	POTS	42 SER	0930.8	0937.2	7.9	3000.0	125.0		III
	2650	DWIN	1 S	0933.0	0933.0	1.0	10.0	5.0		
	536	ONDR	40 F	0933.0	0937.0	9.5	46.0	1.0		
	810	KRAK	8 S	0935.9	0936.0	.2	8.0			
	245	LEAR	47 GB	0937.0	0937.1	1.5	2300.0			
	410	LEAR	47 GB	0937.0	0937.1	1.1	670.0			
	606	LEAR	8 S	0937.0	0937.1	.6	61.0			
	234	POTS	4 S/F	0937.0	0937.2	1.5	1700.0	40.0		III
	9500	POTS	20 GRF	1014.0	1018.0	16.0	6.0			
	930	BORD	46 C	1030.4	1037.5	7.1U	45.0	4.0		
	808	ONDR	2 S/F	1036.0	1037.5	2.0	20.0	8.0		
	1470	POTS	3 S	1036.5	1037.1	1.2	13.0			
	3000	POTS	3 S	1036.5	1037.2	1.5	21.0			
	810	KRAK	8 S	1036.7	1036.8	.4	18.0			
	6100	KISV	4 S/F	1036.8	1037.0	.5	9.0			
	2650	DWIN	1 S	1037.0	1037.0	1.0	15.0	5.0		
	430	KRAK	42 SER	1043.0	1126.2	175.0	100.0			
	430	KRAK		1043.0	1308.3		100.0			
	204	IZMI	41 F	1055.0	1101.8	7.0	350.0			
	228	HARS	45 C	1055.4	1055.6	1.2	210.0	70.0		
	234	POTS	4 S/F	1101.0	1101.4	.7	400.0	60.0		
	2650	DWIN	1 S	1111.0	1111.0	1.0	30.0	10.0		
	810	KRAK	8 S	1150.7	1150.8	.2	22.0			
	33	UPIC	8 S	1155.3	1155.4	.4				
	29	UPIC	8 S	1155.5	1155.7	.3				
	29	UPIC	3 S	1203.5	1203.6	.2				
	33	UPIC	3 S	1203.6	1203.7	.2				
	3000	POTS	40 F	1300.0	1316.4	30.0	10.0			
	9500	POTS	40 F	1300.0	1316.5	30.0	13.0			
	930	BORD	41 F	1304.0	1304.8	1.0	73.0	2.0		
	1470	POTS	40 F	1307.0	1316.8	33.0	7.0			
	410	SGMR	4 S/F	1307.6	1308.3	3.5D	36.0			
	9400	HUAN	20 GRF	1307.9	1317.0	16.2	6.8	2.3		0
	245	SGMR	4 S/F	1308.0	1308.3	2.8	97.0			
	930	BORD	8 S	1308.3	1308.3	.1	26.0	1.0		
	113	POTS	4 S/F	1314.7	1316.3	2.9	4200.0	230.0		III
	808	ONDR	8 S	1315.5	1317.0	1.5	10.0			
	228	HARS	45 C	1316.0	1316.3	1.2	310.0	50.0		
	2800	OTTA	1 S	1316.0	1316.5	2.0	3.2	1.6		
	127	TORN	42 SER	1316.0	1324.0	9.0	770.0			
	234	POTS	42 SER	1316.2	1316.3	2.6	675.0	5.0		III
	930	BORD	46 C	1316.3	1316.6	.8	45.0	3.0		
	536	ONDR	40 F	1317.5	1320.5	4.0	58.0	4.0		
	536	ONDR	8 S	1322.0	1326.5	4.5	17.0			
	536	ONDR	4 S/F	1347.0	1348.5	2.0	32.0	4.0		
	234	POTS	4 S/F	1349.1	1349.2	.2	1500.0	400.0		
	930	BORD	8 S	1356.3	1356.3	.2	41.0	1.0		
	7000	SAOP	8 S	1444.3	1444.7	.8	19.0	9.0		
	7000	SAOP	3 S	1544.7	1546.8	4.0	15.0	7.0		
	9400	HUAN	1 S	1545.3	1546.0	1.5	8.5	2.2		0
	2800	OTTA	40 F	1545.8	1546.1	.6	9.4			
	2800	OTTA	20 GRF	1715.0	1735.0	75.0	5.4	2.4		
	9400	HUAN	20 GRF	2010.3	2018.6	39.0	10.2	4.2		0
	3750	TYKW	45 C	2213.0	2219.7	15.0	22.0	7.0		
	3750	TYKW	29 PBI	2228.0		40.0	6.0	3.0		
	410	LEAR	8 S	2326.6	2326.8	.4	60.0			
	500	HIRA	45 C	2333.9	2334.0	.7	900.0	300.0		SR
	100	HIRA	46 C	2334.0		4.1	1000.0D	120.0D		
	2000	TYKW	5 S	2334.0	2334.4	1.0	3.0	1.0		
	1000	TYKW	5 S	2334.0	2334.5	1.0	1.5	.5		
	606	LEAR	8 S	2334.1	2334.3	.7	400.0			
	410	LEAR	8 S	2334.1	2334.3	.7	410.0			
	245	LEAR	8 S	2334.1	2334.5	1.2	56.0			
	3750	TYKW	5 S	2353.0	2355.9	5.0	15.0	7.0		
	3750	TYKW	30 PBI	2358.0		60.0	7.0	3.0		
07	127	TORN	44 NS	0630.0E		450.0D		120.0		V2,DISTURBED
	260	ONDR	44 NS	0909.0E		268.0D	40.0D			
	200	HIRA	44 NS	2106.0E	0626.0	630.0D	130.0	50.0		MR
	100	HIRA	44 NS	2106.0E	0700.0	630.0D	650.0	170.0		
	245	LEAR	43 NS	2153.0	2254.6	749.0	500.0			
	208	VORO	44 NS	2300.0E		240.0D		30.0		
	208	VORO	46 C	0013.0	0014.0	12.0	100.0D			
	2840	PEKG	5 S	0013.0	0015.4	13.0	5.6			
	208	VORO		0013.0	0018.0		100.0D			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

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	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
07	200	HIRA			0014.0	0014.6		1100.0			WR
	500	HIRA	46	C	0014.0	0014.7	4.0	145.0	30.0		SR
	1000	TYKW	45	C	0014.0	0015.2	5.0	16.0	3.0		
	9400	TYKW	45	C	0014.0	0015.4	4.0	185.0	30.0		
	9395	PEKG	45	C	0014.0	0015.5	3.0	137.0	40.0		
	3750	TYKW	45	C	0014.0	0015.8	5.0	59.0	11.0		
	200	HIRA	46	C	0014.0	0017.4	5.3	1300.0	218.0		MR
	100	HIRA	46	C	0014.1		6.6	1000.0D	510.0D		
	245	LEAR	47	GB	0014.3	0014.6	3.8	410.0			
	410	LEAR	47	GB	0014.3	0015.0	3.5	59.0			
	8800	LEAR	47	GB	0014.3	0015.3	4.8	200.0			
	17000	NOBE	7	C	0014.4	0015.4	2.0	84.0			L
	2000	TYKW	45	C	0014.5	0015.2	3.5	38.0	3.0		
	606	LEAR	47	GB	0014.5	0015.3	1.0	119.0			
	15400	LEAR	47	GB	0014.6	0015.3	1.4	110.0			
	8800	PALE	8	S	0014.6	0015.3	1.2	180.0			
	1415	PALE	8	S	0014.8	0015.1	.3	47.0			
	4995	LEAR	47	GB	0014.8	0015.3	2.2	67.0			
	4995	PALE	8	S	0014.8	0015.3	1.5	67.0			
	4995	MANI	3	S	0014.8	0015.9	2.2	63.7	21.2		
	8800	MANI	3	S	0014.8	0016.0	2.2	171.5	57.2		
	1415	LEAR	47	GB	0015.0	0015.1	.1	43.0			
	1415	MANI	3	S	0015.0	0015.7	1.5	58.0	19.3		
	606	MANI	3	S	0015.0	0015.8	2.0	30.0	10.0		
	2695	PALE	47	GB	0015.3	0015.3	3.2	22.0			
	2695	LEAR	47	GB	0015.3	0016.0	.8	17.0			
	2695	MANI	1	S	0015.5	0016.0	1.5	5.7	1.9		
	9395	PEKG	29	PBI	0017.0	0017.2	8.0	9.2	5.6		
	9400	TYKW	29	PBI	0018.0		15.0	10.0	4.0		
	3750	TYKW	29	PBI	0019.0		20.0	6.0	2.0		
	15400	PALE	8	S	0019.1	0019.3	.4	32.0			
	3750	TYKW	20	GRF	0130.0	0134.0	30.0	2.0	1.0		
	9400	TYKW	20	GRF	0130.0	0134.0	30.0	3.0	1.5		
	9400	TYKW	5	S	0301.0	0302.4	3.0D	23.0	10.0D		
	4995	LEAR	8	S	0302.1	0302.3	.4	23.0			
	2695	LEAR	8	S	0302.1	0302.3	1.7	16.0			
	8800	LEAR	8	S	0302.1	0302.3	.7	29.0			
	17000	NOBE	1	S	0302.1	0302.4	.7	11.0			0
	15400	LEAR	4	S/F	0302.3	0302.5	124.6	19.0			
	410	LEAR	8	S	0302.3	0302.5	.5	44.0			
	245	LEAR	8	S	0302.3	0302.8	.5	54.0			
	2000	TYKW	5	S	0302.5E	0302.5U	2.5D	6.0D	2.0D		
	3750	TYKW	5	S	0303.0E	0303.0U	5.0D	5.0D	2.0D		
	9400	TYKW	30	PBI	0307.0E		20.0D	3.0D	1.5D		
	3750	TYKW	5	S	0310.0U	0319.0	20.0U	3.0	1.5U		
	1000	TYKW	45	C	0311.5	0312.6	1.5	9.0	1.5		
	9400	TYKW	5	S	0317.0	0317.6	3.0	5.0	1.5		
	245	LEAR	47	GB	0317.1	0317.5	2.7	840.0			
	410	LEAR	47	GB	0317.1	0318.0	2.4	510.0			
	606	LEAR	8	S	0317.3	0317.5	.3	43.0			
	100	HIRA	42	SER	0353.6		16.0	1000.0D			
	200	HIRA	46	C	0353.6	0354.6	5.6	1400.0	300.0		0
	500	HIRA	46	C	0353.7	0354.4	5.6	100.0	30.0		SR
	1000	TYKW	45	C	0354.0	0354.8	6.0	34.0	5.0		
	2000	TYKW	45	C	0354.0	0355.7	6.0	57.0	9.0		
	2840	PEKG	45	C	0354.0	0356.2	4.0	43.0	15.0		
	9400	TYKW	45	C	0354.0	0356.2	5.0	355.0	70.0		
	3750	TYKW	45	C	0354.0	0356.3	6.0	170.0	40.0		
	17000	NOBE	7	C	0354.4	0356.2	3.8	202.0			L
	4995	MANI	4	S/F	0354.5	0356.6	4.5	277.0	2.3		
	8800	MANI	4	S/F	0354.5	0356.6	4.0	487.1	162.4		
	1415	MANI	4	S/F	0354.8	0357.1	3.7	46.0	15.3		
	410	LEAR	47	GB	0355.0E	0355.0	2.3D	320.0			
	245	LEAR	47	GB	0355.0E	0355.0	3.8D	560.0			
	606	LEAR	47	GB	0355.0E	0355.0	2.1D	400.0			
	15400	LEAR	47	GB	0355.0E	0356.0	7.1D	260.0			
	1415	LEAR	47	GB	0355.0E	0356.0	1.6D	22.0			
	2695	LEAR	47	GB	0355.0E	0356.0	2.0D	82.0			
	4995	LEAR	47	GB	0355.0E	0356.0	3.3D	280.0			
	8800	LEAR	47	GB	0355.0E	0356.0	2.8D	460.0			
	2695	MANI	4	S/F	0355.0	0356.7	3.0	85.5	28.5		
	2840	PEKG	29	PBI	0358.0		27.0D	5.2			
	17000	NOBE	29	PBI	0358.1	0358.2	8.0	26.0			0
	9400	TYKW	29	PBI	0359.0		13.0	11.0	4.0		
	2000	TYKW	29	PBI	0400.0		16.0	2.0	1.0		
	3750	TYKW	30	PBI	0400.0		16.0	4.0	2.0		
	3750	TYKW	5	S	0410.5	0411.3	1.5	3.0	1.0		
	2000	TYKW	21	GRF	0420.0	0430.0	30.0	1.0	.5		
	3750	TYKW	21	GRF	0420.0	0444.0	60.0	3.0	1.5		
	2000	TYKW	5	S	0435.0	0436.0	2.0	1.0	.3		
	3750	TYKW	5	S	0435.5	0435.7	1.5	5.0	1.5		
	3750	TYKW	5	S	0440.0	0440.2	1.0	3.5	1.0		
	9400	TYKW	5	S	0440.0	0440.5	1.0	9.0	1.5		
	3750	TYKW	5	S	0533.0	0538.5	25.0	2.5	1.0		
	606	LEAR	8	S	0708.0	0708.1	1.6	77.0			
	2950	GORK	21	GRF	0708.5	0724.0	214.0	13.0			
	650	GORK	30	PBI	0710.9	0720.9	61.2	1.0			
	9395	PEKG	20	GRF	0713.0	0729.0	28.0	6.2			
	2695	ATHN	4	S/F	0714.6	0724.1	19.5D	48.0			
	245	LEAR	47	GB	0715.0	0717.0	5.8	119.0			
	204	IZMI	46	C	0715.0	0717.8	6.2	400.0	150.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
07	650	GORK	4 S/F	0715.0	0719.5	5.9	96.0			
	2840	PEKG	45 C	0715.0	0723.0	9.0	37.0	12.0		
	950	GORK	4 S/F	0715.4	0718.8	11.5	85.0			
	2695	LEAR	47 GB	0715.8	0718.6	13.5	27.0			
	1415	MANI	4 S/F	0716.0	0719.1	7.0	76.4	25.5		
	2695	MANI	4 S/F	0716.0	0723.4	8.5	49.9	16.6		
	606	MANI	4 S/F	0716.3	0719.7	7.7	130.0	43.3		
	1415	ATHN	4 S/F	0716.5	0718.5	17.3	59.0			
	606	LEAR	47 GB	0716.6	0718.8	6.2	130.0			
	3000	IZMI	4 S/F	0716.7	0719.8	5.8	18.0	8.0		
	4995	ATHN	4 S/F	0716.8	0724.6	15.2D	23.0			
	410	LEAR	47 GB	0717.1	0718.3	3.2	27.0			
	1415	LEAR	47 GB	0717.3	0718.5	6.3	92.0			
	2950	GORK	45 C	0717.4	0719.8	6.0	24.0			
	2950	GORK		0717.4	0723.0		27.0			
	930	BORD	46 C	0718.0E	0718.8	7.0D	92.0	7.0		
	8800	ATHN	4 S/F	0718.3	0726.6	18.5	06.0			
	4995	LEAR	47 GB	0719.1	0720.1	8.5	13.0			
	1470	POTS	4 S/F	0720.0E	0721.6	8.0D	74.0			
	3000	POTS	4 S/F	0720.0E	0722.8	8.0D	32.0			
	650	GORK	4 S/F	0722.0	0723.0	1.5	11.5	2.0		
	2650	DWIN	1 S	0723.0	0723.0	1.0	40.0	20.0		
	2840	PEKG	29 PBI	0724.0	0734.0	15.0	11.0	7.9		
	650	GORK	41 F	0747.5	0750.2	6.3	10.5			
	650	GORK		0747.5	0753.1		5.0			
	410	LEAR	8 S	0749.8	0750.1	.5	10.0			
	245	LEAR	8 S	0749.8	0751.8	2.0	20.0			
	606	LEAR	8 S	0750.1	0750.1	.2	17.0			
	410	LEAR	8 S	0753.0	0753.1	.6	22.0			
	606	LEAR	8 S	0753.0	0753.1	.6	17.0			
	430	KRAK	8 S	0753.0	0753.2	.6	220.0			
	245	LEAR	8 S	0753.3	0753.5	.5	20.0			
	204	IZMI	5 S	0802.8	0802.9	.5	320.0	250.0		
	6100	KISV	4 S/F	0810.6	0810.9	1.0	10.0			
	810	KRAK	8 S	0810.7	0810.7	.2	24.0			
	950	GORK	1 S	0810.7	0811.0	.7	5.0			
	8800	LEAR	8 S	0810.8	0810.8	.2	24.0			
	245	LEAR	8 S	0810.8	0810.8	.2	11.0			
	606	LEAR	8 S	0810.8	0810.8	.8	10.0			
	4995	LEAR	8 S	0810.8	0810.8	.2	20.0			
	410	LEAR	8 S	0810.8	0810.8	.7	61.0			
	2950	GORK	1 S	0810.8	0810.9	.6	5.9			
	650	GORK	1 S	0810.8	0811.0	.7	2.0			
	9100	GORK	1 S	0810.8	0811.0	.6	17.0	8.5		
	1415	LEAR	8 S	0810.8	0811.1	.8	10.0			
	2695	LEAR	8 S	0810.8	0811.3	.7	13.0			
	2650	DWIN	1 S	0811.0	0811.0	1.0	10.0	5.0		
	3000	POTS	1 S	0813.5	0814.0	1.5	7.6			
	9500	POTS	3 S	0813.8	0814.0	1.2	13.0			
	1470	POTS	1 S	0814.0	0814.3	1.0	2.5			
	410	LEAR	8 S	0842.8	0843.1	.5	22.0			
	430	KRAK	42 SER	0929.4	0934.5	16.5	120.0			
	930	BORD	8 S	0956.0	0956.0	.1	20.0	1.0		
	234	POTS	4 S/F	1312.5	1312.7	.5	500.0	100.0		
	430	KRAK	41 F	1317.0	1320.6	4.0	210.0			
	410	SGMR	8 S	1319.1	1320.0	1.2D	100.0			
	2800	OTTA	20 GRF	1328.0	1332.0	30.0	5.2	2.6		
	930	BORD	41 F	1447.5	1447.8	.8	31.0	1.0		
	410	SGMR	4 S/F	1553.3	1557.0	7.7	150.0			
	606	SGMR	4 S/F	1554.3	1556.8	6.0	43.0			
	2800	OTTA	2 S/F	1556.0	1557.0	6.0	2.6	1.3		
	9400	HUAN	1 S	1823.3	1823.7	1.0	8.2	4.1		L
	2800	OTTA	40 F	1823.3	1823.8	1.2	6.6			
	1415	SGMR	8 S	1823.3	1824.0	1.0D	74.0			
	7000	SAOP	8 S	1823.5	1823.8	.6	16.0	8.0		2OL
	410	SGMR	8 S	1823.6	1823.6	1.0D	82.0			
	606	SGMR	8 S	1823.6	1823.6	.7D	130.0			
	245	SGMR	8 S	1823.6	1823.6	.2	119.0			
	2695	SGMR	8 S	1824.0	1824.1	.6D	22.0			
	410	SGMR	8 S	1838.3	1838.5	.5	28.0			
	245	SGMR	8 S	1838.3	1838.8	.7D	39.0			
	1000	TYKW	5 S	2247.0	2247.7	1.0	5.0	1.5		
	200	HIRA	42 SER	2253.1	2302.8	10.5	1270.0			O
	3750	TYKW	5 S	2300.7	2301.0	1.0	3.0	1.0		
	9400	TYKW	5 S	2302.0	2303.7	5.0	9.0	3.0		
	2000	TYKW	5 S	2302.5	2303.2	2.0	3.0	1.0		
	3750	TYKW	5 S	2302.7	2303.1	2.0	8.0	2.5		
	1000	TYKW	5 S	2302.7	2303.3	1.5	3.0	1.0		
	245	LEAR	8 S	2302.8	2302.8	.3	69.0			
	2695	LEAR	8 S	2303.0	2303.1	.1	13.0			
	15400	LEAR	4 S/F	2303.6	2303.8	.2D	20.0			
	606	LEAR	4 S/F	2327.6	2330.3	11.7	24.0			
	410	LEAR	4 S/F	2327.6	2334.1	11.9	16.0			
	245	LEAR	4 S/F	2327.6	2334.3	11.9	31.0			
	1000	TYKW	5 S	2339.9	2340.1	.5	4.0	1.5		
	2000	TYKW	20 GRF	2340.0	0000.0	90.0	2.0	1.0		
	3750	TYKW	21 GRF	2340.0	0005.0	120.0	6.0	3.0		
	9400	TYKW	20 GRF	2345.0	2357.0	60.0	5.0	2.0		
	1000	TYKW	8 S	2355.5	2355.6	.3	7.0	2.5		
08	127	TORN	44 NS	0630.0E		90.0D		713.0		V1,DISTURBED

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1981

	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
08	204	IZMI	44 NS	0700.0E		300.0D	200.0			
	200	GORK	44 NS	0733.0E		198.0D	60.0			
	100	GORK	44 NS	0733.0E		213.0D		100.0		
	260	ONDR	44 NS	0830.0E		313.0D	61.0			
	100	HIRA	44 NS	2107.0E	2300.0	630.0D	300.0	190.0		
	200	HIRA	44 NS	2107.0E	2323.0	630.0D	120.0	70.0		MR
	208	YORO	44 NS	2300.0E		240.0D		55.0		
	3750	TYKW	5 S	0027.0	0029.0	15.0	2.0	1.0		
	1000	TYKW	8 S	0043.1	0043.2	.2	9.0	3.0		
	9400	TYKW	5 S	0124.0	0124.4	1.0	28.0	6.0		
	3750	TYKW	5 S	0124.3	0124.4	.7	12.0	2.5		
	3750	TYKW	20 GRF	0145.0	0207.0	50.0	3.0	1.0		
	2000	TYKW	20 GRF	0145.0	0239.7	75.0	2.0	1.0		
	1000	TYKW	5 S	0200.0	0200.5	1.0	33.0	9.0		
	1000	TYKW	45 C	0233.0	0233.3	1.0	2.5	.7		
	3750	TYKW	5 S	0239.0	0239.7	1.5	3.0	1.0		
	3750	TYKW	5 S	0241.0	0243.0	13.0	3.0	1.5		
	1000	TYKW	21 GRF	0310.0U	0325.0	70.0U	2.0	1.0		
	2840	PEKG	45 C	0315.0	0318.3	6.0	9.0	4.0		
	9400	TYKW	21 GRF	0316.0	0330.0	60.0	7.0	3.0		
	2000	TYKW	21 GRF	0316.0	0344.0	60.0	2.0	1.0		
	3750	TYKW	21 GRF	0316.0	0350.0	62.0	5.0	3.0		
	3750	TYKW	45 C	0316.5	0318.5	3.5	13.0	4.0		
	9400	TYKW	5 S	0316.5	0318.6	4.5	7.0	1.5		
	2000	TYKW	5 S	0316.7	0317.3	2.5	4.0	1.5		
	200	HIRA	46 C	0340.0	0340.8	3.8	530.0	80.0		MR
	2840	PEKG	45 C	0356.0	0358.0	12.0	77.0	8.6		
	3750	TYKW	45 C	0356.5	0358.0	5.5	102.0	17.0		
	9400	TYKW	45 C	0356.5	0358.2	4.5	72.0	22.0		
	1000	TYKW	45 C	0356.5	0358.3	4.5	43.0	15.0		
	100	HIRA	46 C	0356.7		5.0	1000.0D	300.0D		
	200	HIRA	46 C	0356.8	0357.6	2.5	800.0	130.0		WR
	2000	TYKW	45 C	0357.0	0358.1	5.0	54.0	11.0		
	500	HIRA	46 C	0357.0	0358.6	2.7	300.0	110.0		SR
	17000	NOBE	1 S	0357.8	0358.3	10.0	30.0			L
	4995	MANI	3 S	0358.1	0358.5	2.9	143.1	47.7		
	8800	MANI	3 S	0358.1	0358.8	2.9	121.2	40.4		
	2695	MANI	3 S	0358.4	0358.8	2.6	74.1	24.7		
	606	MANI	4 S/F	0358.4	0405.0	8.1	137.8	45.9		
	1000	TYKW	30 PBI	0401.0		10.0U	2.0	1.0		
	9400	TYKW	29 PBI	0401.0		9.0	9.0	4.0		
	1000	TYKW	5 S	0402.7	0402.8	.5	20.0	2.0		
	1000	TYKW	45 C	0403.3	0405.3	3.5	19.0	2.5		
	3750	TYKW	5 S	0403.5	0404.4	2.5	2.5	1.0		
	2000	TYKW	45 C	0403.5	0404.6	2.5	3.0	1.0		
	3750	TYKW	20 GRF	0422.0	0436.0	50.0	3.0	1.5		
	2000	TYKW	20 GRF	0430.0	0449.0	40.0	1.5	.7		
	2000	TYKW	20 GRF	0523.0	0530.0	30.0	1.5	.7		
	1000	TYKW	8 S	0535.1	0535.2	.2	22.0	6.0		
	1000	TYKW	8 S	0536.0	0536.1	.2	4.5	1.0		
	3750	TYKW	5 S	0540.0	0542.0	15.0	2.0	1.0		
	9400	TYKW	5 S	0542.5	0543.2	1.5	3.0	1.5		
	1000	TYKW	42 SER	0542.8	0543.0	.8	46.0	10.0		
	1000	TYKW	5 S	0623.3	0623.6	1.0	4.0	1.0		
	9400	TYKW	5 S	0635.0	0635.4	1.0	8.0	2.0		
	2950	GORK	20 GRF	0717.6	0722.0	72.0	7.5			
	234	POTS	4 S/F	0749.1	0749.2	.5	250.0	25.0		III
	234	POTS	4 S/F	0925.7	0925.8	.6	150.0	20.0		
	430	KRAK	40 F	1051.5	1053.0	2.3	100.0			
	6100	KISV	3 S	1055.0	1056.5	2.5	5.0			
	7000	SAOP	2 S/F	1206.0	1206.7	1.1	6.0	3.0		O
	536	ONDR	4 S/F	1227.5	1228.5	2.0	65.0	2.0		
	430	KRAK	8 S	1308.0	1308.0	.2	14.0			
	430	KRAK	42 SER	1322.6	1326.1	19.6	66.0			
	430	KRAK	7 C	1409.8	1410.3	3.8	250.0	6.0		
	430	KRAK		1409.8	1412.8		50.0			
	3200	BERN	4 S/F	1411.0	1411.5	2.0	45.0			ONLY PAPER REC
	1470	POTS	4 S/F	1411.0	1411.5	1.0	96.0			
	3000	POTS	4 S/F	1411.0	1411.8	1.5	27.0			
	2650	DWIN	2 S/F	1411.0	1412.0	2.0	40.0	2.0		
	2800	OTTA	20 GRF	1655.0	1710.0	125.0	9.8	5.0		
	2800	OTTA	21 GRF	1905.0	1920.0	160.0	18.0	8.6		
	2800	OTTA	1 S	1909.0	1910.3	2.8	7.2	3.6		
	2800	OTTA	3 S	1913.0	1913.5	1.2	12.2	6.1		
	2800	OTTA	3 S	1915.0	1916.0	3.0	10.2	5.1		
	9400	HUAN	20 GRF	1915.3	1929.0	51.7	10.4	4.5		O
	7000	SAOP	20 GRF	1919.1	1927.2	32.3	19.0	9.0		O
	2800	OTTA	1 S	1936.8	1937.2	2.2	4.8	2.2		
	3750	TYKW	21 GRF	2230.0	2240.0	30.0	2.0	1.0		
	9400	TYKW	20 GRF	2230.0	2240.0	30.0	4.0	2.0		
	3750	TYKW	5 S	2249.9	2250.1	2.0	4.0	1.5		
	1000	TYKW	45 C	2249.9	2250.2	5.0	10.0	3.0		
	2000	TYKW	5 S	2249.9	2250.2	5.0	9.0	2.5		
	3750	TYKW	8 S	2253.2	2253.3	.3	13.0	3.0		
	3750	TYKW	21 GRF	2305.0	0110.0	225.0	12.0	6.0		
	2000	TYKW	45 C	2309.0	2311.5	6.0	18.0	4.0		
	3750	TYKW	45 C	2310.0	2311.0	5.0	14.0	3.5		
	9400	TYKW	5 S	2310.0	2311.5	15.0	4.0	1.5		
	1000	TYKW	45 C	2310.0	2314.1	7.0	28.0	4.0		
	3750	TYKW	21 GRF	2325.0	2335.0	35.0	2.0	1.0		
	1000	TYKW	5 S	2337.7	2337.8	.5	9.0	3.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1981

	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
08	3750	TYKW	5	S	2347.0	2347.5	1.0	7.0	3.5		
	9400	TYKW	5	S	2347.0	2347.5	1.0	10.0	4.0		
	9400	TYKW	29	PBI	2348.0		12.0	3.0	1.5		
	3750	TYKW	29	PBI	2348.0		5.0	2.0	1.0		
09	100	GORK	44	NS	0517.0E		390.0D		15.0		
	200	GORK	44	NS	0519.0E		391.0D		30.0		
	204	IZMI	44	NS	0700.0E		300.0D	36.0			
	260	ONDR	44	NS	0806.0E		351.0D	24.0			
	100	HIRA	44	NS	2108.0E	0340.0	630.0D	150.0	50.0		
	200	HIRA	44	NS	2108.0E	0417.0	630.0D	25.0	15.0		MR
	208	VORO	44	NS	2300.0E		240.0D		18.0		
	3750	TYKW	5	S	0005.0	0008.5	15.0	2.0	1.0		
	9400	TYKW	45	C	0025.0	0028.2	7.0	36.0	12.0		
	2930	VORO	45	C	0025.0	0029.0	8.0	30.0			
	3750	TYKW	45	C	0025.0	0029.2	7.0	31.0	10.0		
	2000	TYKW	45	C	0026.0	0029.1	7.0	15.0	3.0		
	1000	TYKW	45	C	0026.4	0026.7	3.5	170.0	13.0		
	17000	NOBE	20	GRF	0026.4	0028.2	16.0	17.0			O
	9395	PEKG	45	C	0030.0	0033.2	23.0	29.0	6.4		
	2840	PEKG	5	S	0031.0	0034.0	6.0	10.0	5.1		
	9400	TYKW	30	PBI	0032.0		15.0	6.0	2.5		
	3750	TYKW	29	PBI	0032.0		20.0	2.0	1.0		
	9400	TYKW	5	S	0035.0	0036.0	2.5	3.0	1.5		
	3750	TYKW	5	S	0054.0	0054.7	7.0	7.0	2.0		
	2840	PEKG	1	S	0058.6	0059.8	3.0	5.3	2.5		
	1000	TYKW	21	GRF	0415.0	0430.0	165.0	8.0	4.0		
	3750	TYKW	45	C	0415.0	0449.1	60.0	37.0	15.0		
	9400	TYKW	45	C	0415.0	0449.1	60.0	48.0	10.0		
	2000	TYKW	45	C	0415.0	0501.9	60.0	34.0	13.0		
	1000	TYKW	5	S	0433.0	0433.3	1.0	6.0	1.5		
	606	MANI	40	F	0438.0	0538.7	70.5	169.1	56.4		
	1000	TYKW	47	GB	0439.0	0519.3	50.0	1720.0	180.0		
	1415	MANI	4	S/F	0441.0	0442.8	5.3	352.5	117.5		
	2840	PEKG	45	C	0444.0	0449.0	22.0	16.0	8.6		
	4995	MANI	3	S	0448.2	0449.0	1.8	45.1	15.0		
	8800	MANI	3	S	0448.2	0449.1	1.8	58.1	19.4		
	2695	MANI	3	S	0448.2	0449.1	1.8	11.7	3.9		
	2840	PEKG	29	PBI	0506.0		23.0	5.3	3.3		
	950	GORK	46	C	0512.0E	0519.3	65.0D	940.0			
	950	GORK			0512.0E	0538.6		1900.0			
	650	GORK	46	C	0512.0E	0538.6	62.0D	140.0			
	650	GORK			0512.0E	0541.0		116.0			
	950	GORK			0512.0E	0541.1		1600.0			
	650	GORK			0512.0E	0543.7		68.0			
	2000	TYKW	30	PBI	0515.0		105.0D	17.0	12.0D		
	3750	TYKW	30	PBI	0515.0		105.0D	20.0	13.0D		
	9400	TYKW	30	PBI	0515.0		105.0D	17.0	15.0D		
	2000	TYKW	45	C	0520.0	0521.8	9.0	3.0	1.0		
	9100	GORK	23	GRF	0525.8	0719.1	314.0	24.0			
	1000	TYKW	5	S	0530.2	0530.7	1.0	36.0	10.0		
	1000	TYKW	5	S	0531.6	0532.0	1.0	9.0	3.0		
	1000	TYKW	47	GB	0534.0	0538.6	24.0	2700.0	380.0		
	2000	TYKW	45	C	0536.0	0541.0	13.0	9.0	2.0		
	9400	TYKW	5	S	0541.0	0541.7	3.0	7.0	1.5		
	3750	TYKW	5	S	0541.0	0541.7	3.0	7.0	1.5		
	1000	TYKW	45	C	0559.0	0600.0U	1.0D	4.0D	2.0D		
	1000	TYKW	45	C	0603.0	0616.5	18.0	42.0	6.0		
	2840	PEKG	45	C	0612.0	0614.8	14.0	30.0	5.8		
	9395	PEKG	45	C	0612.0	0614.8	14.0	72.0	14.0		
	4995	MANI	4	S/F	0612.1	0614.7	5.9	82.0	27.3		
	8800	MANI	4	S/F	0612.1	0614.8	5.4	87.2	29.1		
	2950	GORK	4	S/F	0612.4	0614.4	11.8	34.0	17.0		
	6100	KISV	46	C	0613.0	0614.7	5.0	68.0			
	9400	TYKW	45	C	0613.0	0614.8	6.0	80.0	23.0		
	2000	TYKW	45	C	0613.0	0614.8	11.0	17.0	3.0		
	3750	TYKW	45	C	0613.0	0614.8	6.0	41.0	13.0		
	6100	KISV			0613.0	0615.5		48.0			
	15000	KISV	45	C	0613.5	0614.6	4.0	70.0			
	2695	MANI	4	S/F	0613.5	0614.8	2.0	32.6	10.9		
	1415	MANI	4	S/F	0613.5	0614.8	2.5	25.0	8.3		
	15000	KISV			0613.5	0615.3		53.0			
	606	MANI	4	S/F	0613.5	0616.8	3.5	36.5	12.2		
	9100	GORK	46	C	0613.6	0614.7	7.5	87.0			
	9100	GORK			0613.6	0615.6		70.0			
	17000	NOBE	7	C	0613.8	0614.8	6.0	41.0			L
	3750	TYKW	29	PBI	0619.0		15.0	6.0	2.5		
	9400	TYKW	29	PBI	0619.0		25.0	12.0	4.0		
	6100	KISV	27	RF	0708.0	0718.0	40.0	7.0			
	3100	CRIM	26	FAL	0736.0	0836.0	60.0	14.0	5.0		
	6100	KISV	8	S	0925.3	0925.7	.5	10.0			
	650	GORK	22	GRF	0925.9	0936.3	11.5	4.0			
	430	KRAK	41	F	0927.3	0928.8	2.6	200.0			
	5200	BERN	4	S/F	0929.0	0929.5	1.0	37.0			ONLY PAPER REC
	3200	BERN	4	S/F	0929.0	0929.5	1.0	30.0			ONLY PAPER REC
	3000	POTS	42	SER	0929.0	0930.0	10.0	31.0			
	950	GORK	22	GRF	0929.0	0936.0	15.6	14.0			
	2950	GORK	45	C	0929.1	0929.6	10.3	29.0			
	2950	GORK			0929.1	0936.0		13.0			
	100	GORK	8	S	0929.3	0929.7U	1.2	1000.0			
	200	GORK	8	S	0929.3	0929.7	1.4	150.0			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

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	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
09	3100	CRIM	1	S	0929.3	0929.8	2.0	26.0	8.0		
	1470	POTS	42	SER	0929.5	0930.0	11.0	18.0			
	204	IZMI	5	S	0929.8	0930.0	1.0	850.0	600.0		
	2650	DWIN	2	S/F	0930.0	0930.0	1.0	30.0	15.0		
	2650	DWIN	2	S/F	0935.0	0936.0	2.0	15.0	5.0		
	536	ONDR	4	S/F	1021.0	1021.5	3.0	28.0	3.0		
	650	GORK	2	S/F	1021.8	1022.3	1.8	13.0			
	3100	CRIM	1	S	1022.0	1022.5	1.0	19.0	6.0		
	200	GORK	8	S	1022.2	1022.7	1.4	140.0			
	950	GORK	1	S	1022.3	1022.9	1.2	6.0			
	234	POTS	4	S/F	1022.4	1022.6	.8	625.0	25.0		III
	1470	POTS	3	S	1022.4	1022.9	1.1	8.0			
	3000	POTS	3	S	1022.4	1022.9	1.1	21.0			
	204	IZMI	5	S	1022.5	1022.6	.8	600.0	450.0		
	2950	GORK	1	S	1022.5	1022.9	1.0	18.0	9.0		
	2650	DWIN	1	S	1023.0	1023.0	1.0	35.0	15.0		
	6100	KISV	4	S/F	1115.2	1115.9	1.5	6.0			
	1470	POTS	46	C	1225.0	1313.5	125.0D	1000.0			
	234	POTS	48	C	1230.0	1311.0	96.0	1350.0			IV
	2650	DWIN	49	GB	1230.0	1400.0	90.0	450.0D			
	5200	BERN	47	GB	1231.0	1313.0	140.0	830.0			ONLY PAPER REC
	3200	BERN	47	GB	1231.0	1313.0U	140.0	850.0D			ONLY PAPER REC
	3000	POTS	46	C	1231.0	1313.5	119.0	1900.0			
	430	KRAK	28	PRE	1235.1	1250.3	25.0	100.0	10.0		
	810	KRAK	28	PRE	1235.1	1255.4	24.3	48.0	20.0		
	9500	POTS	45	C	1236.0	1313.0	97.0	445.0			
	7000	SAOP	28	PRE	1236.1	1257.3	26.6	75.0	37.0		
	9400	HUAN	28	PRE	1236.5	1302.8	26.3	63.6	27.6		L
	260	ONDR	49	GB	1240.0	1315.0U	77.0D	192.0U			
	9400	HUAN	2	S/F	1240.3	1240.7	1.0	24.0	13.7		0
	113	POTS	48	C	1242.0	1320.0	65.0	2000.0			IV
	33	UPIC	48	C	1249.6	1257.2	25.5				
	29	UPIC	48	C	1251.3E	1252.2	18.7U				
	234	POTS	42	SER	1257.2	1300.2	3.2	1900.0	10.0		III
	430	KRAK	49	GB	1300.0			760.0D			
	810	KRAK	49	GB	1300.0			750.0D			
	808	ONDR	49	GB	1301.0	1314.0U	39.0				
	536	ONDR	49	GB	1302.0	1310.0	46.0	350.0	174.0		
	228	HARS	47	GB	1302.0	1311.0	600.0	1120.0	250.0		
	7000	SAOP	47	GB	1302.7	1313.4	48.3	579.0	289.0		
	9400	HUAN	45	C	1302.8	1313.2	29.4	615.0	297.6		L
	2800	OTTA	47	GB	1303.0	1313.0	37.0	1450.0	504.0		
	9400	HUAN	29	PBI	1332.2	1332.2	123.5	257.7	44.6		L
	2800	OTTA	29	PBI	1340.0	1340.0	150.0	70.0	18.0		
	7000	SAOP	29	PBI	1351.0	1351.0	128.5	65.0	32.0		
	2800	OTTA	45	C	1750.2	1750.6	1.5	8.2	3.0		
	2800	OTTA	260	FAL	1755.0	1930.0	95.0	-8.0	-4.0		
	2695	PENT	240	R	2008.0	2010.0	2.0	2.4	1.2		
	2800	OTTA	21	GRF	2015.0	2025.0	70.0	4.4	2.2		
	2800	OTTA	4	S/F	2059.0	2100.2	2.0	15.0	7.2		
	9400	HUAN	2	S/F	2059.6	2100.3	2.2	15.5	6.9		0
	100	HIRA	41		2303.3	2304.2	2.6	675.0			
	208	VORO	4	S/F	2317.0	2318.0	2.0	150.0D			
10	200	GORK	44	NS	0534.0E		383.0D		15.0		
	100	GORK	44	NS	0534.0E		382.0D		15.0		
	260	ONDR	44	NS	0752.0E		398.0D	20.0			
	204	IZMI	43	NS	0900.0		180.0D	20.0			
	100	HIRA	44	NS	2108.0E	2310.0	630.0D	560.0	220.0		
	200	HIRA	44	NS	2108.0E	2318.0	630.0D	340.0	60.0		SR
	208	VORO	44	NS	2300.0E		240.0D		75.0		
	3750	TYKW	5	S	0020.0	0022.0	10.0	3.0	1.0		
	3750	TYKW	20	GRF	0047.0	0122.0	45.0	4.0	1.5		
	2000	TYKW	5	S	0100.9	0101.0	.6	12.0	4.0		
	2000	TYKW	21	GRF	0154.0	0230.0	90.0	6.0	2.5		
	3750	TYKW	21	GRF	0155.0	0230.0	100.0	6.0	3.0		
	9400	TYKW	20	GRF	0155.0	0230.0	110.0	4.0	2.0		
	2000	TYKW	5	S	0226.0	0227.6	4.0	6.0	2.5		
	208	VORO	46	C	0240.0	0241.0	4.0	150.0D			
	208	VORO			0240.0	0243.0		150.0D			
	9395	PEKG	22	GRF	0348.0	0357.0	19.0	4.1	2.0		
	9395	PEKG	41	F	0413.0	0414.5	12.0	9.6	5.5		
	3750	TYKW	21	GRF	0440.C	0506.0	140.0	11.0	5.0		
	2000	TYKW	21	GRF	0440.0	0520.0	130.0	3.0	1.5		
	9400	TYKW	21	GRF	0440.0	0520.0	140.0	4.0	2.0		
	9395	PEKG	22	GRF	0505.0	0509.3	24.0	7.5	3.3		
	1000	TYKW	45	C	0506.0	0506.1	6.0	4.5	2.0		
	9100	GORK	23	GRF	0537.1	0549.5	30.2	20.0			
	9400	TYKW	45	C	0544.5	0546.5	6.5	133.0	40.0		
	3750	TYKW	45	C	0544.5	0546.6	7.5	70.0	22.0		
	9395	PEKG	45	C	0545.0	0546.6	5.0	104.0	38.0		
	2840	PEKG	3	S	0545.0	0546.7	13.0	26.0	7.6		
	9100	GORK	4	S/F	0545.1	0546.6	3.8	130.0			
	4995	MANI	3	S	0545.3	0547.1	5.2	111.3	37.1		
	17000	NOBE	7	C	0545.4	0546.4	5.0	54.0			R
	2950	GORK	3	S	0545.5	0546.6	3.5	25.0	12.0		
	2000	TYKW	5	S	0545.5	0547.0	4.5	6.0	3.0		
	8800	MANI	3	S	0545.7	0547.0	3.6	146.1	48.7		
	2695	MANI	3	S	0546.1	0547.0	2.9	23.7	7.9		
	9395	PEKG	29	PBI	0550.0		49.0	12.0	5.5		
	2000	TYKW	29	PBI	0550.0		10.0	2.0	1.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1981

	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
10	9400	TYKW	29 PBI	0551.0		50.0	11.0	6.0		
	3750	TYKW	29 PBI	0552.0		50.0	6.0	3.0		
	430	KRAK	8 S	0813.2	0813.3	.2	90.0			
	536	ONDR	4 S/F	0826.0	0827.5	2.5	22.0	4.0		
	536	ONDR	8 S	0931.0	0934.0	4.0	98.0			
	430	KRAK	42 SER	0931.2	0932.0	7.1	360.0			
	430	KRAK		0931.2	0934.5		270.0			
	810	KRAK	8 S	0931.5	0931.6	.2	10.0			
	204	IZMI	41 F	0932.3	0935.5	4.2	300.0			
	430	KRAK	8 S	1009.8	1009.9	.1	17.0			
	430	KRAK	42 SER	1009.8	1111.7		72.0			
	234	POTS	4 S/F	1118.4	1118.7	.9	240.0	40.0		
	204	IZMI	4 S/F	1118.5	1118.8	.8	250.0	150.0		
	2650	DWIN	41 F	1121.0	1127.0	6.0	40.0	10.0		
	7000	SAOP	3 S	1126.7	1128.8	4.2	12.0	6.0		0
	430	KRAK	40 F	1313.6	1314.1	2.8	38.0			
	536	ONDR	40 F	1352.5	1359.0	7.0	3.0	1.0		
	430	KRAK	8 S	1358.8	1359.5	1.1	580.0			
	9400	HUAN	1 S	1458.6	1459.1	1.7	8.2	6.0		0
	2800	OTTA	240AR	1550.0	1650.0	60.0	11.4	5.7		
	7000	SAOP	3 S	1621.4	1622.5	1.8	12.0	6.0		0
	9400	HUAN	2 S/F	1621.7	1622.3	1.5	9.9	5.2		0
	2800	OTTA	4 S/F	1622.0	1622.5	2.0	21.8	8.0		
	7000	SAOP	20 GRF	1628.0		131.4	15.0	7.0		0
	2800	OTTA	22 GRF	1652.0	1700.0	12.0	5.4	2.7		
	2695	PENT	27F RF	1750.0		227.0	4.2	3.8		
	2695	PENT	24 R	1750.0	1755.0	5.0	4.2	3.0		
	2695	PENT	24P R	1755.0		200.0	4.2			
	2695	PENT	26 FAL	2115.0	2157.0	42.0U	-4.2	-2.1		
	2695	PENT	21 GRF	2140.0	2200.0	40.0	4.2	2.1		
	2695	PENT	1 S	2143.0	2144.0	2.0	3.0	1.5		
	500	HIRA	45 C	2143.2	2143.7	.9	500.0	80.0		WL
	9400	TYKW	5 S	2233.6	2233.8	1.0	8.0	2.0		
	500	HIRA	27 RF	2237.0	2340.6	130.0	15.0	5.0		MR
	3750	TYKW	21 GRF	2250.0	2358.0	180.0	8.0	4.0		
11	100	GORK	44 NS	0526.2E		391.0D		10.0		
	200	GORK	44 NS	0528.0E		385.0D		10.0		
	204	IZMI	43 NS	0700.0		300.0D	26.0			
	260	ONDR	44 NS	0757.0E		37.7D	14.0			
	127	TORN	44 NS	0950.0E		310.0D		520.0		V1,DISTURBED
	200	HIRA	44 NS	2110.0E	2325.0	620.0D	70.0	50.0		MR
	100	HIRA	44 NS	2110.0E	2352.0	620.0D	510.0	340.0		
	410	LEAR	43 NS	2152.0	0627.1	752.0	100.0			
	245	LEAR	43 NS	2152.0	0828.8	752.0	230.0			
	208	VORO	44 NS	2300.0E		240.0D	7.0	48.0		
	3750	TYKW	20 GRF	0028.0	0115.0	80.0	4.0	2.0		
	9400	TYKW	5 S	0040.0	0040.5	1.0	6.0	1.5		
	9400	TYKW	29 PBI	0041.0		15.0	2.0	1.0		
	1000	TYKW	20 GRF	0055.0	0110.0	50.0	2.0	1.0		
	9400	TYKW	5 S	0110.0	0114.0	10.0	3.0	1.5		
	3750	TYKW	21 GRF	0211.0	0240.0	70.0	4.0	2.0		
	2000	TYKW	21 GRF	0215.0	0231.3	70.0	4.0	2.0		
	1000	TYKW	20 GRF	0240.0	0255.0	50.0	3.0	1.5		
	2840	PEKG	1 S	0333.0	0334.8	8.0	9.7			
	3750	TYKW	5 S	0334.0	0335.1	3.0	7.0	1.5		
	9400	TYKW	5 S	0334.0	0335.1	2.5	15.0	3.0		
	2000	TYKW	5 S	0334.0	0335.2	4.0	12.0	3.0		
	1000	TYKW	5 S	0334.7	0335.3	2.5	4.0	1.5		
	17000	NOBE	1 S	0334.9	0335.1	.5	17.0			0
	200	HIRA	46 C	0343.0	0343.8	1.1	560.0	210.0		MR
	2840	PEKG	3 S	0343.0	0344.0	8.0	24.0	3.6		
	100	HIRA	46 C	0343.5	0344.0	1.5	500.0	180.0		
	3750	TYKW	5 S	0343.5U	0344.1	2.5U	19.0U	5.0U		
	2000	TYKW	5 S	0343.5	0344.1	7.0	28.0	5.0		
	9400	TYKW	5 S	0343.5	0344.1	1.5	16.0	4.0		
	1000	TYKW	5 S	0343.6	0344.1	6.0	13.0	3.5		
	17000	NOBE	1 S	0343.7	0344.0	.8	54.0			0
	2000	TYKW	45 C	0430.0	0446.6	23.0	109.0	15.0		
	3750	TYKW	45 C	0430.0	0446.6	40.0	45.0	15.0		
	2840	PEKG	45 C	0435.0	0446.7	16.0	47.0	6.0		
	9400	TYKW	21 GRF	0435.0	0455.0	75.0	15.0	6.0		
	1000	TYKW	45 C	0436.0	0445.8	24.0	188.0	20.0		
	9395	PEKG	20 GRF	0436.0	0448.4	49.0	17.0	7.3		
	606	MANI	4 S/F	0438.5	0446.2	21.5	72.8	24.3		
	1415	MANI	4 S/F	0441.5	0447.7	8.5	135.9	45.3		
	9400	TYKW	5 S	0445.0	0445.6	7.0	8.0	3.0		
	2695	MANI	3 S	0445.7	0447.2	2.3	11.6	3.9		
	2840	PEKG	29 PBI	0451.0	0451.0	55.0	17.0	8.1		
	2000	TYKW	29 PBI	0453.0		85.0	10.0	4.0		
	1000	TYKW	29 PBI	0500.0		80.0	2.0	1.0		
	3750	TYKW	29 PBI	0510.0		80.0	11.0	4.0		
	650	GORK	40 F	0643.2	0643.5	6.0	15.0			
	650	GORK		0643.2	0644.7		7.0			
	234	POTS	4 S/F	0648.2	0648.7	1.1	380.0	75.0		III
	113	POTS	8 S	0648.3	0648.8	1.0	700.0	175.0		III
	113	POTS	4 S/F	0700.0	0701.2	1.6	1500.0	15.0		III
	9100	GORK	2 S/F	0718.4	0719.4	1.4	22.0			
	2950	GORK	1 S	0718.5	0719.4	1.3	5.9	2.8		
	650	GORK	4 S/F	0718.8	0719.2	1.7	32.0	4.0		
	950	GORK	2 S/F	0718.8	0719.5	1.3	28.0			

SOLAR RADIO EMISSION
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NOVEMBER 1981

	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
11	100	GORK	46 C	0730.0	0730.4U	1.6	110.0D			
	100	GORK		0730.0	0730.8		110.0D			
	650	GORK	4 S/F	0732.6	0733.7	3.1	11.0	3.0		
	113	POTS	4 S/F	0733.2	0733.4	2.3	700.0	30.0		III
	204	IZMI	41 F	0733.2	0733.5	1.5	115.0			
	200	GORK	4 S/F	0733.2	0733.8	1.4	180.0D			
	1470	POTS	8 S	0733.5	0734.0	1.1	23.0			
	950	GORK	2 S/F	0733.6	0734.0	.8	15.0			
	2950	GORK	1 S	0733.7	0733.9	.4	2.0	1.0		
	810	KRAK	8 S	0840.9	0841.0	.2	9.0			
	430	KRAK	8 S	0841.0	0841.0	.2	18.0			
	33	UPIC	42 SER	0842.8	1128.4	181.5				
	113	POTS	8 S	0843.4	0843.6	.6	350.0	120.0		III
	29	UPIC	42 SER	0843.5		181.0				
	650	GORK	41 F	0849.1	0849.7	4.2	19.5			
	650	GORK		0849.1	0851.5		8.0			
	950	GORK	22 GRF	0849.2	0851.8	12.3	10.0			
	9100	GORK	21 GRF	0849.4	0900.0	44.0	13.0			
	3100	CRIM	45 C	0850.0	0851.1	15.0	54.0	18.0		
	9500	POTS	42 SER	0850.0	0851.5	18.0	54.0			III
	3100	CRIM		0850.0	0855.2		26.0			
	3100	CRIM		0850.0	0859.6		14.0			
	9100	GORK	41 F	0850.3	0850.8	6.2	83.0			
	2950	GORK	4 S/F	0850.3	0851.2	5.3	60.0			
	9100	GORK		0850.3	0855.4		17.0			
	3000	IZMI	7 C	0850.4	0851.0	5.4	55.0	27.0		
	3200	BERN	42 SER	0850.5	0851.2	12.0	60.0			ONLY PAPER REC
	5200	BERN	42 SER	0850.5	0851.2	12.0	85.0			ONLY PAPER REC
	3000	POTS	42 SER	0850.5	0851.3	17.0	53.0			
	1470	POTS	42 SER	0850.5	0851.7	17.0	19.0			
	810	KRAK	8 S	0851.5	0851.6	.3	15.0			
	204	IZMI	41 F	0858.8	0859.0	1.0	250.0			
	536	ONDR	8 S	0859.0	0900.0	1.0	22.0			
	113	POTS	4 S/F	0859.2	0859.6	1.5	200.0	5.0		III
	650	GORK	40 F	0927.0	0927.1	4.9	13.0			
	3000	POTS	3 S	0927.0	0929.0	6.0	22.0			
	650	GORK		0927.0	0929.5		3.0			
	204	IZMI	41 F	0928.5	0928.6	1.2	350.0			
	200	GORK	4 S/F	0928.5	0929.1	1.3	180.0D			
	1470	POTS	3 S	0928.5	0929.4	4.5	14.0			
	113	POTS	4 S/F	0928.6	0929.0	1.9	200.0	30.0		III/V
	950	GORK	3 S	0928.6	0929.1	3.0	7.0			
	9100	GORK	1 S	0928.6	0929.1	1.6	9.0			
	3100	CRIM	1 S	0928.6	0929.2	3.0	18.0	6.0		
	2950	GORK	3 S	0928.7	0929.2	2.2	18.0	9.0		
	9500	POTS	3 S	0928.7	0929.2	1.3	7.0			
	810	KRAK	8 S	1040.3	1040.4	.3	7.0			
	113	POTS	8 S	1047.2	1047.3	.2	160.0	50.0		III
	650	GORK	4 S/F	1127.0	1128.2	3.1	8.5	2.5		
	260	ONDR	42 SER	1127.0	1128.5	3.0	104.0			
	950	GORK	2 S/F	1127.0	1128.5	3.0	10.0			
	200	GORK	4 S/F	1127.1	1127.4	2.9	170.0			
	113	POTS	41 F	1127.3	1127.6	2.6	350.0	9.0		III
	100	GORK	46 C	1127.3	1127.8	2.1	600.0			
	100	GORK		1127.3	1128.5		400.0			
	204	IZMI	41 F	1127.4	1127.4	3.0	380.0			
	234	POTS	41 F	1127.4	1127.5	2.4	625.0	7.0		III
	536	ONDR	4 S/F	1127.5	1128.0	2.5	21.0	4.0		
	1470	POTS	4 S/F	1127.5	1128.2	3.5	12.0			
	2950	GORK	1 S	1127.6	1128.5	2.5	10.0	5.0		
	430	KRAK	4 S/F	1127.8	1128.1	2.2	380.0	19.0		
	810	KRAK	2 S/F	1127.8	1128.3	3.0	23.0			
	810	KRAK	2 S/F	1127.8	1128.3	3.0	23.0	5.0		
	3000	POTS	8 S	1128.5	1128.7	.8	9.0			
	204	IZMI	5 S	1149.0	1149.5	.8	250.0	200.0		
	430	KRAK	8 S	1220.0	1220.1	.3	20.0	19.0		
	810	KRAK	8 S	1251.6	1251.6	.2	9.0	19.0		
	430	KRAK	8 S	1324.6	1324.7	.4	25.0			
	430	KRAK	8 S	1349.4	1349.6	.6	220.0			
	7000	SAOP	28 PRE	1446.0		2.7	7.0	3.0		
	5200	BERN	4 S/F	1448.5	1449.0	2.0	46.0			ONLY PAPER REC
	3200	BERN	4 S/F	1448.5	1449.1	2.0	36.0			ONLY PAPER REC
	9400	HUAN	2 S/F	1448.6	1449.3	1.6	31.1	15.3		R
	7000	SAOP	45 C	1448.7	1449.4	2.2	59.0	29.0		
	2800	OTTA	45 C	1449.0	1449.5	2.0	30.0	13.0		
	9400	HUAN	29 PBI	1450.2	1450.2	11.6	8.6	6.4		R
	7000	SAOP	29 PBI	1451.0	1453.3	13.0	18.0	9.0		
	9400	HUAN	21 GRF	1656.7	1729.2	52.0	10.4	3.3		0
	7000	SAOP	4 S/F	1727.3	1728.1	3.0	86.0	43.0		31L
	9400	HUAN	3 S	1727.3	1728.2	1.4	32.9	14.4		L
	2800	OTTA	3 S	1747.8	1748.2	1.2	45.0	20.0		
	2800	OTTA	29 PBI	1749.0	1749.0	10.0	6.0	2.0		
	1000	TYKW	42 SER	2259.6	2300.2	3.0	9.0	.5		
	1000	TYKW	5 S	2329.8	2330.1	.6	5.0	1.0		
12	208	VORO	44 NS	0000.0E		240.0D		48.0		
	200	GORK	44 NS	0551.0E		369.0D		10.0		
	100	GORK	44 NS	0552.0E		368.0D		20.0		
	127	TORN	44 NS	0630.0E		516.0D		191.0		V1
	204	IZMI	44 NS	0700.0E		300.0D	39.0			
	260	ONDR	44 NS	0747.0E		361.0D	30.0			

SOLAR RADIO EMISSION
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	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	POLARIZATION OR REMARKS
12	100	HIRA	44 NS	2110.0E	0000.0	630.0D	160.0	95.0		
	200	HIRA	44 NS	2110.0E	0257.0	630.0D	65.0	45.0		WR
	1000	TYKW	45 C	0005.0	0006.8	2.5	170.0	15.0		
	1000	TYKW	21 GRF	0055.0	0113.4	190.0	7.0	2.5		
	1000	TYKW	5 S	0057.0	0057.2	.5	1.0	.3		
	1000	TYKW	47 GB	0058.8	0059.2	1.5	880.0	300.0		
	3750	TYKW	5 S	0059.0	0059.3	1.0	4.0	1.0		
	9400	TYKW	5 S	0059.0	0059.3	1.0	4.0	1.5		
	2000	TYKW	45 C	0059.0	0059.3	1.0	82.0	34.0		
	3750	TYKW	21 GRF	0102.0	0323.0	265.0	12.0	7.0		
	2930	VORO	45 C	0107.0	0110.0		51.0			
	2930	VORO		0107.0	0113.0		42.0			
	3750	TYKW	45 C	0107.0	0113.3	15.0	67.0	18.0		
	2930	VORO		0107.0	0114.0	15.0	54.0			
	9400	TYKW	21 GRF	0107.0	0237.0	260.0	8.0	4.0		
	2000	TYKW	21 GRF	0107.0	0323.0	260.0	6.0	3.0		
	9395	PEKG	45 C	0108.0	0113.3	9.0	58.0	26.0		
	2000	TYKW	45 C	0109.0	0113.3	10.0	28.0	9.0		
	9400	TYKW	45 C	0109.0	0113.3	11.0	53.0	20.0		
	2840	PEKG	45 C	0109.0	0113.3	8.0	41.0	22.0		
	17000	NOBE	7 C	0109.5	0113.2	9.5	30.0			O
	1000	TYKW	5 S	0109.9	0110.0	.6	1.0	.3		
	9395	PEKG	30 PBI	0117.0		42.0	16.0	5.7		
	2840	PEKG	30 PBI	0117.0	0147.0	34.0	10.0	1.7		
	1000	TYKW	5 S	0117.7	0118.0	.7	3.0	1.0		
	2000	TYKW	30 PBI	0119.0		15.0	2.0	1.0		
	1000	TYKW	45 C	0124.3	0125.7	2.0	19.0	4.0		
	3750	TYKW	45 C	0124.5	0125.7	2.5	36.0	9.0		
	2000	TYKW	5 S	0125.0	0125.6	2.0	11.0	3.0		
	2840	PEKG	5 S	0125.0	0125.6	2.0	17.0	4.0		
	9395	PEKG	5 S	0125.0	0125.6	2.0	22.0			
	9400	TYKW	5 S	0125.0	0125.6	1.0	27.0	10.0		
	2930	VORO	3 S	0125.0	0127.0	3.0	20.0			
	9400	TYKW	29 PBI	0126.0		5.0	3.0	1.5		
	3750	TYKW	29 PBI	0127.0		12.0	2.0	1.0		
	1000	TYKW	8 S	0127.4	0127.5	.3	5.0	1.5		
	2000	TYKW	28 PRE	0139.0	0139.6	12.0	3.0	1.5		
	1000	TYKW	45 C	0139.6	0139.7	.7	6.0	1.5		
	208	VORO	46 C	0151.0	0153.0	14.0	150.0D			
	2930	VORO	3 S	0151.0	0153.0	7.0	107.0			
	2840	PEKG	45 C	0151.0	0153.3	11.0	97.0	51.0		
	1000	TYKW	45 C	0151.0	0153.5	15.0	72.0	13.0		
	2000	TYKW	5 S	0151.0	0153.5	7.0	125.0	30.0		
	208	VORO		0151.0	0157.0		150.0D			
	3750	TYKW	5 S	0151.5	0153.5	5.5	76.0	22.0		
	9400	TYKW	5 S	0152.0	0153.5	3.0	10.0	4.0		
	1415	MANI	3 S	0152.0	0153.7	4.5	58.5	19.5		
	2695	MANI	3 S	0152.0	0153.8	4.0	92.1	30.7		
	9395	PEKG	1 S	0153.0	0153.2	2.0	8.8	5.2		
	3750	TYKW	30 PBI	0157.0		15.0	6.0	2.0		
	2000	TYKW	30 PBI	0158.0		25.0	7.0	2.0		
	2840	PEKG	29 PBI	0202.0		32.0	9.4	4.1		
	1000	TYKW	45 C	0209.0	0209.3	1.0	390.0	30.0		
	2000	TYKW	8 S	0209.2	0209.3	.2	4.0	1.0		
	2000	TYKW	8 S	0232.7	0232.8	.3	9.0	2.0		
	1000	TYKW	8 S	0232.7	0232.8	.3	14.0	5.0		
	2000	TYKW	5 S	0235.5	0236.5	5.0	7.0	2.0		
	1000	TYKW	5 S	0235.5	0236.6	3.0	2.5	.7		
	3750	TYKW	5 S	0236.0	0236.6	4.0	4.0	1.5		
	1000	TYKW	8 S	0240.7	0240.8	.3	3.5	1.0		
	1000	TYKW	8 S	0242.0	0242.1	.3	60.0	15.0		
	1000	TYKW	5 S	0242.5	0242.7	1.5	1.0	.3		
	1000	TYKW	5 S	0317.5	0317.6	.5	2.0	.7		
	1000	TYKW	42 SER	0322.5	0323.0	3.0	7.0	1.0		
	1000	TYKW	47 GB	0334.0	0338.1	5.0	1170.0	75.0		
	9400	TYKW	28 PRE	0335.5	0336.0	1.5	2.0	1.0		
	3750	TYKW	28 PRE	0335.5	0336.2	1.5	1.5	.7		
	2840	PEKG	46 C	0336.0	0338.3	14.0	27.0			
	200	HIRA	42 SER	0337.0	0338.3	9.5	1800.0			WR
	3750	TYKW	45 C	0337.0	0338.4	2.0	42.0	12.0		
	9400	TYKW	45 C	0337.0	0338.4	3.0	176.0	22.0		
	2000	TYKW	45 C	0337.0	0338.5	3.0	77.0	15.0		
	500	HIRA	46 C	0337.5	0338.2	2.5	260.0	25.0		WL
	17000	NOBE	7 C	0337.7	0338.3	1.5	182.0			R
	100	HIRA	42 SER	0338.0		9.0	700.0D			
	3750	TYKW	30 PBI	0339.0		20.0U	2.0	1.0U		
	2000	TYKW	30 PBI	0340.0		10.0	2.0	1.0		
	9400	TYKW	30 PBI	0340.0		10.0	2.0	1.0		
	2000	TYKW	45 C	0342.0	0342.8	4.0	67.0	15.0		
	1000	TYKW	47 GB	0342.0	0347.2	7.5	1230.0	160.0		
	3750	TYKW	42 SER	0342.6	0344.2	3.0	4.0	1.0		
	2000	TYKW	5 S	0346.5	0346.7	1.5	5.0	2.0		
	3750	TYKW	5 S	0346.5	0346.7	.6	18.0	7.0		
	9400	TYKW	5 S	0346.5	0346.7	1.5	6.0	1.5		
	2000	TYKW	20 GRF	0405.0	0425.0	55.0	2.0	1.0		
	3750	TYKW	20 GRF	0415.0	0424.0	40.0	3.0	1.5		
	1000	TYKW	5 S	0440.0	0440.3	.5	7.0	3.0		
	1000	TYKW	45 C	0441.2	0441.3	.5	12.0	3.0		
	1000	TYKW	8 S	0450.1	0450.2	.3	41.0	10.0		
	1000	TYKW	42 SER	0454.0	0455.2	2.0	8.0	1.0		
	9400	TYKW	45 C	0459.0	0500.5	8.0	7.0	3.0		

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
12	3750	TYKW	5 S	0501.0	0504.0	8.0	2.0	.7		
	1000	TYKW	42 SER	0502.5	0504.9	5.5	170.0D	8.0		
	1000	TYKW	42 SER	0511.0	0512.7	7.0	117.0	4.0		
	2000	TYKW	5 S	0512.5	0512.7	.5	3.0	1.0		
	1000	TYKW	5 S	0525.8	0526.0	.6	4.0	1.0		
	2000	TYKW	45 C	0531.0	0531.6	2.0	3.0	.7		
	1000	TYKW	45 C	0531.0	0531.8	1.0	4.0	1.0		
	9400	TYKW	21 GRF	0540.0	0548.0	70.0U	4.0	2.0U		
	1000	TYKW	45 C	0541.0	0541.6	1.0	4.0	1.5		
	3750	TYKW	21 GRF	0542.0	0548.0	70.0U	5.0	2.0U		
	2000	TYKW	21 GRF	0542.0	0548.0	70.0U	4.0	1.5U		
	3750	TYKW	45 C	0543.0	0545.4	3.0	2.0	1.0		
	1000	TYKW	45 C	0547.7	0548.1	1.7	86.0	12.0		
	9400	TYKW	5 S	0551.0	0551.6	1.5	3.0	1.0		
	1000	TYKW	45 C	0553.5	0553.6	.4	6.0	1.0		
	1000	TYKW	8 S	0556.6	0556.7	.2	4.0	1.0		
	3750	TYKW	5 S	0558.0	0600.0U	12.0	2.0D	1.0D		
	1000	TYKW	42 SER	0558.5	0607.7	11.5	58.0	2.0D		
	2000	TYKW	45 C	0600.0	0601.3	3.5	8.0	1.5		
	6100	KISV	4 S/F	0600.8	0601.2	1.0	6.0			
	100	GORK	41 F	0600.8	0601.2	16.6	360.0D			
	100	GORK		0600.8	0613.7		390.0D			
	200	GORK	4 S/F	0600.9	0601.0	.7	150.0D			
	9400	TYKW	5 S	0601.0	0601.2	1.5	8.0	2.5		
	950	GORK	4 S/F	0612.0	0612.0	2.6	130.0			
	1000	TYKW	45 C	0612.0	0612.4	2.5	172.0D	12.0		
	2000	TYKW	45 C	0612.0	0612.4	2.5	10.0	2.5		
	2950	GORK	1 S	0612.0	0613.0	4.2	11.0			
	3750	TYKW	5 S	0613.0	0613.8	2.0	8.0	2.0		
	650	GORK	4 S/F	0613.2	0613.9	1.0	7.3	2.6		
	6100	KISV	4 S/F	0613.5	0613.8	.5	5.0			
	9400	TYKW	5 S	0613.6	0613.8	.7	6.0	1.5		
	9400	TYKW	45 C	0618.0	0620.1	4.0	12.0	3.0		
	1000	TYKW	42 SER	0619.0	0630.7	12.0	50.0	2.0		
	9400	TYKW	5 S	0625.3	0625.5	.5	7.0	2.0		
	3750	TYKW	5 S	0627.0	0627.2	1.0	5.0	1.5		
	6100	KISV	1 S	0627.0	0627.2	.5	4.0			
	2000	TYKW	8 S	0627.1	0627.2	.2	21.0	7.0		
	9400	TYKW	5 S	0630.0	0630.3	1.0	11.0	3.0		
	2000	TYKW	5 S	0630.6	0630.8	.5	2.0	.5		
	1000	TYKW	42 SER	0634.5	0649.7	15.5	165.0D	4.0		
	2000	TYKW	5 S	0639.0	0641.0	2.0	4.0	2.0		
	3750	TYKW	5 S	0639.0	0641.0	4.0	6.0	2.0		
	9400	TYKW	5 S	0639.0	0641.0	4.0	12.0	4.0		
	2000	TYKW	45 C	0644.0	0644.4	2.0	7.0	2.0		
	9400	TYKW	45 C	0644.0	0644.6	3.0	8.0	3.0		
	3750	TYKW	45 C	0644.0	0644.7	3.0	5.0	1.5		
	950	GORK	4 S/F	0648.4	0649.5	1.3	126.0			
	950	GORK	4 S/F	0707.8	0708.1	1.7	128.0			
	1000	TYKW	45 C	0707.8	0708.2	1.2	158.0	35.0		
	204	IZMI	8 S	0708.0	0708.1	.7	380.0	270.0		
	2000	TYKW	45 C	0708.0	0708.6	1.0	4.0	1.0		
	950	GORK	41 F	0728.8	0729.2	27.0	70.0			
	950	GORK		0728.8	0738.0		93.0			
	950	GORK		0728.8	0755.2		41.0			
	6100	KISV	4 S/F	0729.0	0729.2	1.0	5.0			
	650	GORK	4 S/F	0737.2	0738.1	2.3	10.5	2.0		
	1470	POTS	42 SER	0754.5	0755.8	8.5	19.0			III
	1470	POTS	42 SER	0807.0	0810.7	7.0	230.0			
	33	UPIC	42 SER	0808.0		106.4				
	808	ONDR	42 SER	0809.0	0810.5	4.0	232.0			
	810	KRAK		0809.4			750.0D			
	810	KRAK	45 C	0809.4	0810.2	4.3	750.0D	95.0		
	9100	GORK	3 S	0809.4	0810.5	4.4	8.5			
	810	KRAK		0809.4	0812.5		540.0			
	3100	CRIM	1 S	0809.5	0810.3	2.0	16.0	5.0		
	950	GORK	46 C	0809.5	0810.4	4.6	129.0			
	6100	KISV	4 S/F	0809.5	0810.6	3.0	44.0U			
	950	GORK		0809.5	0812.5		129.0			
	113	POTS	4 S/F	0809.7	0810.4	1.8	700.0	50.0		III
	100	GORK	46 C	0809.8	0810.0	1.5	560.0			
	430	KRAK	4 S/F	0809.8	0810.3	3.6	130.0	10.0		
	100	GORK		0809.8	0810.3		750.0			
	29	UPIC	42 SER	0809.8	0810.5	104.6				
	2950	GORK	1 S	0809.8	0810.6	2.1	18.0	9.0		
	2840	PEKG	45 C	0809.8	0810.6	5.2	11.0			
	200	GORK	4 S/F	0809.8	0810.7	1.5	140.0D			
	650	GORK	4 S/F	0809.8	0810.7	4.2	13.0	2.5		
	9500	POTS	31 ABS	0810.0	0810.2	25.0	57.0			
	3000	POTS	3 S	0810.0	0810.5	1.5	17.0			
	8400	BERN	3 S	0810.0	0810.5	1.0	84.0			
	5200	BERN	3 S	0810.0	0810.5	1.0	35.0			
	9395	PEKG	45 C	0810.0	0810.6	4.0	63.0	16.0		
	3200	BERN	3 S	0810.0	0810.6	2.0	12.0			
	204	IZMI	7 C	0810.4	0811.1	1.3	200.0	100.0		
	234	POTS	4 S/F	0810.5	0810.5	.3	1000.0	7.0		III
	536	ONDR	8 S	0816.0	0816.5	.5	27.0			
	204	IZMI	8 S	0828.5	0828.5	.2	420.0	370.0		
	260	ONDR	8 S	0828.5	0829.0	.5	121.0			
	234	POTS	8 S	0828.8	0828.8	.8	840.0	280.0		
	6100	KISV	8 S	0846.3	0846.6	.5	5.0			

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
12	650	GORK	23 GRF	0846.3	1052.3	136.7	7.0			
	100	GORK	4 S/F	0851.2	0852.0U	1.6	960.0D			
	113	POTS	4 S/F	0851.3	0852.4	1.9	1000.0	150.0		III
	2950	GORK	1 S	0852.0	0852.6	1.7	9.8	4.5		
	3100	CRIM	1 S	0852.0	0852.8	1.0	10.0	3.0		
	3200	BERN	42 SER	0852.0	0953.8	64.0	131.0			
	5200	BERN	42 SER	0852.0	0953.8	64.0	280.0			
	3000	POTS	3 S	0852.2	0852.6	.8	12.0			
	1470	POTS	1 S	0852.3	0852.6	.7	3.0			
	9100	GORK	21 GRF	0905.5	1112.0	155.0	20.0			
	2950	GORK	1 S	0907.2	0909.0	4.7	11.0	5.5		
	430	KRAK	42 SER	0907.2	0909.2	200.0	270.0			
	430	KRAK		0907.2	0941.3		480.0			
	430	KRAK		0907.2	0954.6		690.0			
	430	KRAK		0907.2	1202.0		260.0			
	536	ONDR	4 S/F	0907.5	0909.0	2.5	58.0	6.0		
	9100	GORK	1 S	0908.0	0908.3	2.5	20.0			
	3100	CRIM	1 S	0908.0	0909.0	2.0	10.0	3.0		
	3000	POTS	3 S	0908.0	0909.2	3.5	13.0			
	9500	POTS	3 S	0908.0	0909.4	3.5	17.0			
	950	GORK	41 F	0908.0	0910.0	39.5	3200.0			
	950	GORK		0908.0	0925.8		120.0			
	950	GORK		0908.0	0940.7		124.0			
	950	GORK		0908.0	0948.5		1760.0			
	810	KRAK	42 SER	0908.1	0909.0U	193.0	750.0D			
	810	KRAK		0908.1	0947.0U		750.0D			
	810	KRAK		0908.1	1134.1U		750.0D			
	810	KRAK		0908.1	1204.5		480.0			
	810	KRAK		0908.1	1214.7		400.0			
	6100	KISV	46 C	0908.2	0909.3	3.0	18.0			
	1470	POTS	4 S/F	0908.2	0909.5	2.8	165.0			
	808	ONDR	2 S/F	0908.5	0909.5	3.5				
	650	GORK	4 S/F	0908.6	0913.1	4.5U	145.0			
	536	ONDR	4 S/F	0922.5	0923.5	4.0	17.0	2.0		
	930	BORD	41 F	0925.0	0926.0	4.0	400.0	8.0		
	808	ONDR	2 S/F	0925.0	0926.0	4.0	102.0	10.0		
	3000	POTS	3 S	0925.5	0925.7	3.5	8.0			
	6100	KISV	4 S/F	0925.5	0925.7	1.5	12.0			
	1470	POTS	42 SER	0925.5	0925.7	4.0	15.0			
	9500	POTS	3 S	0925.5	0925.9	3.5	10.0			
	1470	POTS	42 SER	0940.0	0941.4	16.0	1100.0			
	808	ONDR	2 S/F	0940.0	0942.5	2.5	40.0	4.0		
	930	BORD	42 SER	0940.0	0948.0U	16.0	400.0U	8.0		
	3000	POTS	42 SER	0940.0	0953.8	16.0	123.0			
	6100	KISV	8 S	0940.2	0940.8	1.5	20.0			
	9500	POTS	42 SER	0940.5	0953.8	16.0	193.0			
	9100	GORK	3 S	0940.6	0940.7	.8	30.0			
	808	ONDR	2 S/F	0945.0	0948.0U	4.0				
	200	GORK	4 S/F	0946.3	0948.0	2.1	360.0			
	100	GORK	41 F	0946.4	0946.7		10300.0			
	100	GORK		0946.4	0954.1		960.0			
	113	POTS	42 SER	0946.5	0954.1	8.7	5600.0	100.0		III
	536	ONDR	4 S/F	0947.0	0948.5	3.0	13.0	5.0		
	650	GORK	41 F	0947.6	0948.7	8.2	54.0			
	650	GORK		0947.6	0954.2		180.0			
	9100	GORK	2 S/F	0947.7	0948.1	1.7	38.0			
	6100	KISV	46 C	0947.7	0948.2	2.0	20.0			
	234	POTS	42 SER	0947.9	0954.7	6.8	300.0	6.0		III
	204	IZMI	5 S	0948.0	0948.5	1.0	300.0	150.0		
	808	ONDR	2 S/F	0952.0	0952.6	3.5	172.0	21.0		
	536	ONDR	4 S/F	0952.0	0953.0	3.0	55.0	20.0		
	260	ONDR	8 S	0952.5	0954.0	2.0	179.0			
	127	TORN	5 S	0952.5	0954.0	3.5	5400.0	2700.0		
	2950	GORK	3 S	0952.7	0953.8	2.2	100.0D			
	3100	CRIM	3 S	0953.0	0954.0	3.0	128.0	42.0		
	6100	KISV	4 S/F	0953.0	0954.1	3.0	193.0			
	204	IZMI	5 S	0953.0	0954.2	1.8	550.0	350.0		
	200	GORK	4 S/F	0953.4	0954.1	1.4	1340.0			
	9100	GORK	3 S	0953.5	0954.0	1.0	247.0			
	3000	IZMI	5 S	0953.8	0954.0	.9	88.0	56.0		
	930	BORD	8 S	1009.4	1009.5	.3	333.0	2.0		
	808	ONDR	8 S	1009.5	1009.5	1.0	75.0			
	1470	POTS	8 S	1009.5	1009.7	.4	55.0			
	1470	POTS	40 F	1022.5	1023.7	1.6	5.0			
	930	BORD	41 F	1028.3	1028.4	.2	39.0	2.0		
	1470	POTS	42 SER	1037.5	1137.2	65.0	1650.0			
	2950	GORK	41 F	1038.0	1038.6	95.0D	22.0			
	3000	POTS	29 PBI	1038.0	1038.8	72.0	25.0			
	3100	CRIM	1 S	1038.0	1039.0	2.0	9.0	3.0		
	9500	POTS	23 GRF	1038.0	1205.1	172.0	23.0			
	930	BORD	42 SER	1040.0	1045.3	8.0	78.0	2.0		
	260	ONDR	4 S/F	1045.0	1048.5	5.0	64.0	20.0		
	808	ONDR	8 S	1058.0	1058.5	1.5	58.0	6.0		
	930	BORD	46 C	1058.0	1058.5	1.6	411.0	7.0		
	930	BORD	41 F	1108.0	1111.5	4.0	94.0	2.0		
	930	BORD	42 SER	1125.0	1134.8	15.0	511.0	3.0		
	950	GORK	4 S/F	1129.6	1134.1	9.8	123.0			
	808	ONDR	40 F	1130.0	1135.0	7.5	212.0	6.0		
	650	GORK	4 S/F	1133.5	1136.0	4.6	11.0			
	930	BORD	46 C	1150.0	1151.2	2.4	20.0	2.0		
	808	ONDR	8 S	1158.0	1158.5	.5	45.0			

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
12	930	BORD	42 SER	1158.0	1204.6	21.0	1277.0	4.0		
	7000	SAOP	28 PRE	1201.1		1.8	4.0	2.0		
	808	ONDR	2 S/F	1202.0	1204.5	6.0	252.0	37.0		
	9400	HUAN	3 S	1202.8	1205.4	5.0	16.0	5.2		R
	7000	SAOP	45 C	1202.9	1205.3	2.9	2.9	14.0		24L
	1470	POTS	42 SER	1203.5	1237.2	42.0	195.0			
	7000	SAOP	29 PBI	1205.7		5.0	13.0	6.0		
	808	ONDR	2 S/F	1214.0	1215.5	6.0	131.0	20.0		
	260	ONDR	8 S	1227.0	1228.0	1.5	121.0			
	234	POTS	8 S	1228.4	1228.5	.8	1700.0	550.0		III
	113	POTS	4 S/F	1228.5	1228.8	.8	400.0	80.0		III
	810	KRAK		1228.8			730.0D			
	810	KRAK	49 GB	1228.8	1234.7	41.0	640.0	240.0D		
	808	ONDR	49 GB	1230.0		40.0				
	9400	HUAN	20 GRF	1230.5	1239.4	17.0	10.7	3.9		R
	930	BORD	47 GB	1231.0E	1242.0	37.0D	5217.0D	1555.0		
	430	KRAK	41 F	1233.5	1234.5	6.2	32.0			
	430	KRAK		1233.5	1236.5		56.0			
	3000	POTS	4 S/F	1236.0	1237.7	5.0	18.0			
	3200	BERN	41 F	1236.0	1239.2	6.0	18.0			
	3000	POTS		1236.0	1239.3		18.0			
	5200	BERN	41 F	1236.5	1239.2	6.0	26.0			
	7000	SAOP	45 C	1236.5	1239.4	3.4	22.0	11.0		44R
	7000	SAOP	29 PBI	1239.9		2.5	7.0	3.0		
	7000	SAOP	3 S	1239.9	1415.4		15.0	7.0		
	430	KRAK	8 S	1303.8	1303.8	.1	80.0			
	930	BORD	41 F	1317.7	1317.8	.9	27.0	2.0		
	430	KRAK	8 S	1326.8	1326.8	.2	750.0D			
	930	BORD	46 C	1331.0	1331.9	2.6	133.0	3.0		
	1470	POTS	4 S/F	1331.2	1332.0	1.4	9.0			
	810	KRAK	2 S/F	1331.5	1332.0	1.6	44.0			
	930	BORD	46 C	1345.4	1345.5	.9	189.0	3.0		
	810	KRAK	8 S	1345.6	1345.8	1.0	35.0			
	1470	POTS	8 S	1345.7	1346.0	.8	12.0			
	430	KRAK	8 S	1345.8	1345.8	.3	31.0			
	234	POTS	8 S	1346.0	1346.1	.2	820.0	275.0		III
	113	POTS	42 SER	1346.0	1352.0	8.0	500.0	4.0		III
	2800	OTTA	21 GRF	1400.0	1418.0	90.0	5.4			
	9400	HUAN	22 GRF	1405.8	1408.3	13.7	16.0	6.7		R
	930	BORD	42 SER	1408.0	1416.0	11.0	189.0	3.0		
	2800	OTTA	1 S	1452.8	1453.5	2.5	3.0	1.5		
	3200	BERN	4 S/F	1456.5	1458.5	3.0	32.0			
	5200	BERN	3 S	1457.0	1458.5	3.0	70.0			
	9400	HUAN	3 S	1457.8	1458.6	4.1	37.5	10.7		R
	7000	SAOP	4 S/F	1457.9	1458.7	4.0	68.0	34.0		29R
	930	BORD	46 C	1458.0	1458.4	2.5	33.0	3.0		
	8400	BERN	3 S	1458.0	1458.5	2.0	50.0			
	2800	OTTA	4 S/F	1458.0	1458.6	4.0	27.0	9.0		
	930	BORD	41 F	1511.0	1511.1	.3	30.0	2.0		
	930	BORD	8 S	1526.4	1526.4	.1	22.0	1.0		
	2800	OTTA	240 R	1545.0	1600.0	15.0	2.8	1.0		
	228	HARS	45 C	1553.5	1554.0	1.5	340.0	130.0		
	7000	SAOP	47 GB	1555.8	1601.9	15.3	874.0	437.0		7R
	930	BORD	42 SER	1557.0	1606.0	19.0	710.0	12.0		
	9400	HUAN	47 GB	1600.2	1601.8	3.8	1334.4	421.0		R
	2800	OTTA	4 S/F	1600.2	1601.9	6.8	132.0	24.0		
	9400	HUAN	29 PBI	1604.0	1604.0	80.5	66.0	13.9		R
	2800	OTTA	31A ABS	1607.0	1615.0	30.0	-7.2	-3.6		
	2800	OTTA	8 S	1609.8	1610.0	.5	3.2	1.6		
	7000	SAOP	5 S	1611.2		33.0				
	2800	OTTA	1 S	1619.5	1620.0	1.0	3.6	1.8		
	2800	OTTA	4 S/F	1629.2	1630.2	3.0	11.2	3.8		
	7000	SAOP	8 S	1644.5	1644.7	.3	27.0	13.0		37R
	7000	SAOP	24 R	1657.6						
	2800	OTTA	20 GRF	1705.0	1720.0	35.0	6.8	3.4		
	2800	OTTA	23 GRF	1810.0	1825.0	85.0	9.8	4.9		
	7000	SAOP	41 F	1811.6						5
	7000	SAOP	45 C	1811.6	1812.9	3.4	396.0	198.0		12R
	2800	OTTA	46F C	1811.8	1812.9	8.0	144.0	24.0		
	9400	HUAN	3 S	1811.9	1813.0	1.8	271.2	168.0		R
	9400	HUAN	29 PBI	1813.7	1813.7	7.8	48.2	26.8		R
	7000	SAOP	29 PBI	1815.0	1817.0	27.8	17.0	8.0		
	2800	OTTA	8 S	1831.5	1831.7	.5	3.2	1.6		
	2800	OTTA	3 S	1836.8	1837.0	2.0	17.8	6.0		
	2800	OTTA	1 S	1847.1	1847.4	1.0	2.2	1.1		
	7000	SAOP	3 S	1847.2	1847.3	2.0	29.0	14.0		16R
	7000	SAOP	28 PRE	1859.3		5.8	6.0	3.0		
	2800	OTTA	1 S	1859.8	1900.0	1.0	6.6	3.3		
	7000	SAOP	3 S	1859.8	1900.0	.8	36.0	18.0		13R
	7000	SAOP	29 PBI	1900.6		5.2	7.0	3.0		
	2800	OTTA	2 S/F	1918.0	1918.5	2.0	2.6			
	7000	SAOP	45 C	1920.4	1922.5	3.0	34.0	17.0		28R
	2800	OTTA	4 S/F	1921.5	1922.5	2.0	28.0	18.6		
	7000	SAOP	29 PBI	1923.4		6.7	6.0	3.0		
	7000	SAOP	3 S	1931.2	1931.8	1.5	22.0	11.0		31R
	2800	OTTA	1 S	1931.2	1931.8	1.0	6.6	3.1		
	2800	OTTA	1 S	1940.0	1940.7	2.0	3.2			
	2800	OTTA	3 S	2040.5	2040.8	1.5	46.0	23.0		
	2800	OTTA	30 PBI	2042.0	2042.0	18.0	7.2	2.4		
	2800	OTTA	1 S	2046.5	2047.9	2.0	9.0	3.0		
	2695	PENT	1 S	2103.0	2104.0	2.0	2.6	1.3		

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	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	MEAN	INT	POLARIZATION OR REMARKS
12	2695	PENT	2 S/F	2126.0	2126.9	1.0	3.8			
	2695	PENT	2 S/F	2128.0	2128.5	1.2	9.0			
	2695	PENT	21 GRF	2145.0	2200.0	20.0	5.4			
	1000	TYKW	47 GB	2147.5	2155.7	15.5	5150.0	160.0		
	2000	TYKW	45 C	2149.0U	2155.7	15.0U	22.0U	2.0U		
	3750	TYKW	45 C	2151.0U	2155.6	12.0U	69.0U	5.0U		
	2695	PENT	8 S	2152.8	2152.9	.2	8.0			
	2695	PENT	3 S	2154.0	2155.8	2.0	30.0	8.0		
	100	HIRA	46 C	2154.6	2155.3	1.7	780.0	310.0		
	9400	TYKW	5 S	2155.0U	2155.6	1.5U	48.0U	12.0U		
	3750	TYKW	21 GRF	2230.0	2240.0	30.0	4.0	1.5		
	9400	TYKW	21 GRF	2230.0	2240.0	30.0	9.0	3.0		
	1000	TYKW	42 SER	2235.5	2239.7	11.5	142.0	9.0		
	2000	TYKW	45 C	2236.0	2239.9	8.0	7.0	2.0		
	9400	TYKW	5 S	2246.0	2249.0	10.0	5.0	2.0		
	100	HIRA	46 C	2246.3	2247.3	3.4	835.0	270.0		
	1000	TYKW	45 C	2247.0	2249.1	5.0	305.0	35.0		
	2695	PENT	8 S	2248.0	2248.0	.2	6.4			
	3750	TYKW	45 C	2248.7	2248.9	1.0	8.0	3.0		
	1000	TYKW	47 GB	2252.0	2254.0	5.0	2240.0	250.0		
	2000	TYKW	45 C	2253.0	2253.3	4.0	6.0	2.0		
	1000	TYKW	45 C	2259.0	2259.5	1.0	10.0U	3.0U		
	2000	TYKW	21 GRF	2302.0	0115.0	295.0	7.0	3.5		
	1000	TYKW	21 GRF	2302.0U	2312.0	105.0U	3.0	1.5		
	3750	TYKW	21 GRF	2303.0	0123.0	295.0	21.0	9.0		
	3750	TYKW	21 GRF	2305.0	2318.0	50.0	4.0	1.5		
	9400	TYKW	21 GRF	2305.0	2319.0	55.0	8.0	3.0		
	3750	TYKW	5 S	2308.0	2309.0	2.0	3.0	.7		
	1000	TYKW	45 C	2317.0	2317.3	1.0	3.0	.5		
	1000	TYKW	5 S	2318.0	2318.3	1.0	117.0	10.0		
	2000	TYKW	5 S	2318.1	2318.3	.5	1.5	.5		
	2000	TYKW	5 S	2319.0	2320.8	4.0	9.0	3.0		
	1000	TYKW	45 C	2319.0	2322.2	5.0	280.0	35.0		
	3750	TYKW	5 S	2319.5	2320.9	4.5	20.0	5.0		
	9400	TYKW	5 S	2320.0	2320.8	3.0	17.0	5.0		
	17000	NOBE	1 S	2320.2	2320.8	3.0	12.0			O
	1000	TYKW	45 C	2332.3	2335.6	4.0	167.0D	12.0		
	2000	TYKW	45 C	2333.0	2333.8	4.0	19.0	3.0		
	2840	PEKG	45 C	2334.0	2335.6	2.0	5.5	2.6		
	3750	TYKW	45 C	2334.0	2335.7	3.0	19.0	6.0		
	9395	PEKG	45 C	2334.0	2335.7	6.0	39.0	10.0		
	9400	TYKW	45 C	2334.0	2335.7	5.0	39.0	9.0		
	17000	NOBE	1 S	2334.4	2335.7	2.5	25.0			R
	2000	TYKW	45 C	2334.5	2339.1	5.5	3.5	1.0		
	1000	TYKW	45 C	2337.0	2337.7	1.7	200.0	23.0		
	500	HIRA	42 SER	2337.0	2348.0	15.0	800.0			SL
	1000	TYKW	45 C	2338.7	2340.7	3.3	120.0	18.0		
	9400	TYKW	45 C	2341.0	2342.0	4.0	3.0	1.0		
	1000	TYKW	45 C	2342.3	2342.9	1.5	30.0	7.0		
	1000	TYKW	5 S	2344.0	2344.2	1.0	7.0	1.5		
	3750	TYKW	45 C	2344.0	2348.4	9.0	11.0	3.0		
	9395	PEKG		2345.0	2348.2					
	2840	PEKG	45 C	2345.0	2350.7	11.0	39.0	10.0		
	17000	NOBE	7 C	2345.6	2348.1	3.5	33.0			R
	1000	TYKW	47 GB	2345.8	2348.3	6.5	590.0	130.0		
	2000	TYKW	5 S	2346.0	2346.6	1.0	4.0	1.0		
	9400	TYKW	45 C	2346.0	2347.9	5.0	44.0	12.0		
	100	HIRA	41 F	2347.5	2348.8	4.6	724.0			
	2000	TYKW	45 C	2347.5	2350.9	5.5	140.0	13.0		
	2840	PEKG		2347.6	2348.3					
	200	HIRA	41 F	2347.6	2350.4	4.4	1600.0			WL
	2840	PEKG	45 C	2347.6	2350.8	5.8	14.0	6.5		
	9400	TYKW	29 PBI	2351.0		5.0	4.0	2.0		
	1000	TYKW	47 GB	2352.6	2352.8	1.0	560.0	95.0		
	1000	TYKW	42 SER	2358.0	2358.5	1.0	55.0	8.0		
13	208	VORO	44 NS	0000.0E		240.0D		39.0		
	200	GORK	44 NS	0530.0E		225.0D		10.0		
	100	GORK	44 NS	0540.0E		215.0D		10.0		
	127	TORR	44 NS	0630.0E	1103.4	510.0D	16100.0	75.0		V1
	260	ONDR	44 NS	0808.0E		359.0D	24.0			
	200	HIRA	44 NS	2112.0E	2212.0	615.0D	10.0	5.0		WR
	100	HIRA	44 NS	2112.0E	2248.0	410.0D	45.0	15.0		
	245	LEAR	43 NS	2151.0	0630.1	754.0	130.0			
	410	LEAR	43 NS	2228.5	0001.5	716.5	91.0			
	1000	TYKW	5 S	0003.0E	0003.0U	.5D	18.0D	5.0D		
	1000	TYKW	45 C	0004.0	0005.4	9.0	51.0	3.0		
	9400	TYKW	21 GRF	0010.0	0123.0	230.0	12.0	5.0		
	1000	TYKW	47 GB	0014.0	0015.1	2.0	600.0	100.0		
	2840	PEKG	42 SER	0014.0	0015.2	18.0	23.0	4.8		
	3750	TYKW	5 S	0014.0	0015.4	4.0	42.0	9.0		
	9400	TYKW	5 S	0014.0	0015.4	6.0	64.0	11.0		
	9395	PEKG	42 SER	0014.0	0015.4	29.0	71.0	13.0		
	2000	TYKW	5 S	0014.0	0015.4	2.0	20.0	8.0		
	200	HIRA	42 SER	0014.3	0032.5	18.2U	260.0			O
	17000	NOBE	7 C	0014.9	0015.4	9.5	33.0			R
	2930	VORO	3 S	0015.0	0016.0	2.0	46.0			
	2000	TYKW	29 PBI	0016.0		5.0	4.0	2.0		
	1000	TYKW	45 C	0016.0	0018.0	3.0	85.0	23.0		
	1000	TYKW	47 GB	0019.6	0027.1	10.0	740.0	95.0		
	9400	TYKW	45 C	0020.0	0027.8	12.0	22.0	8.0		

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
13	3750	TYKW	45 C	0021.0	0027.8	10.0	20.0	6.0		
	2000	TYKW	5 S	0026.0	0027.8	5.0	12.0	3.5		
	1000	TYKW	45 C	0030.0	0030.5	1.0	22.0	7.0		
	2000	TYKW	45 C	0032.0	0032.6	1.5	44.0	11.0		
	1000	TYKW	47 GB	0032.0	0032.8	4.0	9200.0	1030.0		
	3750	TYKW	45 C	0032.0	0034.7	5.0	16.0	5.0		
	9400	TYKW	45 C	0032.0	0034.8	5.0	22.0	5.0		
	2000	TYKW	5 S	0034.0	0034.8	2.0	4.0	1.5		
	9400	TYKW	29 PBI	0037.0		10.0	6.0	3.0		
	2000	TYKW	5 S	0049.5	0050.4	5.0	4.0	1.5		
	3750	TYKW	5 S	0050.0	0050.4	2.0	7.0	2.0		
	1000	TYKW	21 GRF	0055.0	0115.0	155.0	3.0	1.5		
	1000	TYKW	45 C	0100.0	0100.7	2.0	58.0	4.0		
	1000	TYKW	45 C	0103.0	0106.2	6.0	27.0	2.5		
	3750	TYKW	5 S	0116.0	0117.0	3.0	5.0	1.5		
	1000	TYKW	42 SER	0116.0	0117.0	16.0	4.0	.7		
	100	HIRA	46 C	0116.3	0116.8	1.5	590.0	160.0		
	2000	TYKW	45 C	0116.3	0117.0	1.5	8.0	3.0		
	2000	TYKW	45 C	0122.0	0122.8	2.5	2.0	.7		
	1000	TYKW	42 SER	0133.0	0140.3	13.0	28.0	1.0		
	9400	TYKW	21 GRF	0134.0	0202.0	55.0	17.0	8.0		
	3750	TYKW	5 S	0137.5	0137.7	1.0	15.0	3.0		
	2000	TYKW	5 S	0137.5	0137.8	.8	20.0	6.0		
	2000	TYKW	8 S	0141.4	0141.5	.2	9.0	2.0		
	9400	TYKW	5 S	0142.0	0142.6	2.0	27.0	13.0		
	3750	TYKW	5 S	0142.0	0142.6	8.0	3.0	1.5		
	9395	PEKG	45 C	0142.0	0142.8	9.0	23.0	7.1		
	17000	NOBE	7 C	0142.2		300.0D				
	17000	NOBE		0142.2	0142.4		33.0			R
	17000	NOBE		0142.2	0234.5		28.0			R
	17000	NOBE		0142.2	0254.8		67.0			R
	17000	NOBE		0142.2	0300.0U		101.0U			R
	17000	NOBE		0142.2	0322.5		25.0			R
	17000	NOBE		0142.2	0334.2		155.0			R
	17000	NOBE		0142.2	0440.6		17.0			0
	17000	NOBE		0142.2	0507.5		13.0			0
	9400	TYKW	29 PBI	0144.0		9.0	8.0	3.0		
	1000	TYKW	42 SER	0152.7	0153.0	2.0	3.0	.7		
	9400	TYKW	45 C	0154.0	0158.0	5.0	7.0	2.5		
	3750	TYKW	5 S	0155.0	0202.0	25.0	3.0	1.5		
	1000	TYKW	45 C	0157.5	0158.0	2.5	31.0	3.0		
	2000	TYKW	42 SER	0158.0	0201.5	9.0	1.5	.5		
	1000	TYKW	5 S	0200.0	0201.4	2.0	9.0	2.0		
	1000	TYKW	45 C	0202.0	0205.6	10.0	51.0	6.0		
	500	HIRA	46 C	0202.4	0207.0	9.5	48.0	20.0		SL
	1000	TYKW	5 S	0214.0	0216.6	5.0	2.0	.5		
	2000	TYKW	21 GRF	0220.0	0315.0	95.0	5.0	2.5		
	1000	TYKW	42 SER	0224.0	0226.6	4.0	2.0	.5		
	2840	PEKG	41 F	0227.0	0230.2	11.6	11.0	2.2		
	1000	TYKW	45 C	0229.0	0230.1	2.0	310.0	43.0		
	2000	TYKW	5 S	0229.0	0230.2	2.5	7.0	2.5		
	3750	TYKW	5 S	0229.0	0230.4	3.0	14.0	6.0		
	2930	VORO	40 F	0230.0		30.0	24.0			
	9395	PEKG		0230.0	0230.2					
	9400	TYKW	5 S	0230.0	0230.5	3.0	14.0	6.0		
	9395	PEKG	41 F	0230.0	0234.5	10.0	30.0	5.1		
	3750	TYKW	30 PBI	0232.0		5.0	1.5	.7		
	1000	TYKW	45 C	0232.0	0232.3	1.0	9.0	3.0		
	9400	TYKW	30 PBI	0233.0		11.0	2.0	1.0		
	3750	TYKW	5 S	0234.0	0234.5	2.0	11.0	3.0		
	9400	TYKW	5 S	0234.0	0234.5	3.0	32.0	7.0		
	2000	TYKW	5 S	0234.0	0234.7	2.0	1.5	.5		
	1000	TYKW	5 S	0234.3	0234.5	.5	42.0	7.0		
	1000	TYKW	5 S	0235.0	0235.4	.7	170.0	45.0		
	9400	TYKW	5 S	0237.0	0238.2	4.0	5.0	1.0		
	1000	TYKW	5 S	0237.7	0238.0	.7	38.0	10.0		
	2840	PEKG	28 PRE	0238.6	0242.8	12.4	4.4	2.6		
	1000	TYKW	42 SER	0240.0	0244.3	9.5	4.0	.5		
	2000	TYKW	45 C	0242.0	0243.8	4.0	1.5	.5		
	208	VORO	42 SER	0248.0	0250.0	22.0	100.0D			
	208	VORO		0248.0	0301.0		100.0D			
	208	VORO		0248.0	0310.0		100.0D			
	2000	TYKW	45 C	0249.0	0250.4	4.0	6.0	1.5		
	3750	TYKW	21 GRF	0249.0	0258.0	65.0	6.0	3.5		
	1000	TYKW	45 C	0250.0	0250.6	1.5	140.0	22.0		
	9400	TYKW	5 S	0250.0	0250.6	2.0	12.0	5.0		
	3750	TYKW	5 S	0250.0	0250.6	2.0	8.0	3.0		
	2840	PEKG	45 C	0250.0	0254.8	30.4	17.0	5.6		
	9400	TYKW	30 PBI	0252.0		1.5D	4.0	3.5D		
	35000	NAGO	5 S	0254.0	0254.0	2.0	17.0			
	9395	PEKG		0254.0	0254.8					
	3750	TYKW	5 S	0254.0	0254.9	3.0	28.0	8.0		
	9395	PEKG	45 C	0254.0	0300.0	9.0	72.0	23.0		
	500	HIRA	42 SER	0254.0	0320.6	62.0	5000.0			SL
	1000	TYKW	45 C	0254.5E	0259.7	27.0D	240.0	40.0D		
	9400	TYKW	45 C	0254.7E	0300.1	7.3D	111.0	29.0D		
	2000	TYKW	5 S	0255.0E	0255.0U	1.0D	5.0D	2.0D		
	35000	NAGO	20 GRF	0258.0	0300.0	11.0	19.0			
	2000	TYKW	45 C	0259.0	0259.7	2.5	16.0	4.0		
	3750	TYKW	45 C	0259.0	0300.0U	1.0D	22.0D	8.0D		
	9400	TYKW	29 PBI	0302.0		19.0	12.0	4.0		

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
13	2000	TYKW	5 S	0302.0	0302.2	1.0	3.0	1.0		
	3750	TYKW	5 S	0304.0	0305.0	1.5U	3.0	1.0U		
	3750	TYKW	45 C	0307.5U	0308.0	1.5U	8.0	3.0U		
	2000	TYKW	5 S	0308.0E	0308.0U	2.0D	3.0D	1.5D		
	2000	TYKW	45 C	0310.6	0310.9	.8	34.0	5.0		
	2840	PEKG	45 C	0320.4	0322.8	18.8	11.4	4.8		
	3750	TYKW	5 S	0321.5	0322.6	2.5	11.0	3.5		
	1000	TYKW	45 C	0321.8	0322.3	1.5	155.0	25.0		
	9400	TYKW	45 C	0322.0	0322.6	7.0	19.0	8.0		
	2000	TYKW	5 S	0322.0	0322.7	1.5	4.0	1.5		
	3750	TYKW	30 PBI	0324.0		6.0	1.5	.7		
	1000	TYKW	45 C	0324.0	0324.8	4.0	120.0	20.0		
	2000	TYKW	45 C	0324.5	0324.8	1.0	4.0	1.0		
	3750	TYKW	5 S	0324.6	0324.7	1.5	6.0	2.0		
	3750	TYKW	45 C	0327.0	0327.2	1.0	3.5	1.0		
	9400	TYKW	30 PBI	0329.0		25.0	6.0	3.0		
	1000	TYKW	45 C	0331.3	0331.4	.5	14.0	5.0		
	9400	TYKW	45 C	0332.0	0334.2	6.0	138.0	28.0		
	2000	TYKW	45 C	0332.0	0335.5	6.0	12.0	2.0		
	1000	TYKW	45 C	0332.0	0335.5	5.0	285.0	60.0		
	200	MIRA	42 SER	0332.9	0333.2	19.0	790.0			O
	208	VORO	42 SER	0333.0	0353.0	22.0	100.0D			
	208	VORO		0333.0	0347.0		100.0D			
	3750	TYKW	45 C	0333.5U	0334.2	3.5U	21.0	5.0U		
	35000	NAGO	5 S	0334.0	0335.0	3.0	28.0			
	1000	TYKW	45 C	0338.2	0340.5	3.5	400.0	25.0		
	2840	PEKG	3 S	0339.2	0343.4	15.8	23.0	3.8		
	1000	TYKW	47 GB	0342.0	0343.5	2.0	19300.0	1150.0		
	2000	TYKW	45 C	0342.0	0343.5	2.5	21.0	3.5		
	3750	TYKW	5 S	0342.5U	0343.5	1.5U	22.0	5.0U		
	9400	TYKW	5 S	0343.0	0343.5	2.0	26.0	4.0		
	2000	TYKW	5 S	0346.5	0347.2	2.5	1.5	.5		
	1000	TYKW	42 SER	0351.0	0352.1	6.0	15.0U	4.0U		
	2000	TYKW	5 S	0351.5	0352.0	1.5	1.5	.5		
	1000	TYKW	5 S	0407.3	0408.0	1.0	4.0	1.0		
	2840	PEKG	20 GRF	0410.0	0434.0	27.0D	7.6	1.7		
	9400	TYKW	21 GRF	0410.0	0435.0	70.0	4.0	2.0		
	2000	TYKW	21 GRF	0410.0	0444.0	85.0	4.0	2.0		
	3750	TYKW	21 GRF	0410.0	0444.0	85.0	7.0	3.5		
	9395	PEKG	21 GRF	0414.0E	0433.2	36.0D	9.6			
	1000	TYKW	45 C	0420.5	0420.9	1.0	23.0	7.0		
	9395	PEKG	5 S	0439.0	0439.3	2.0	18.0	10.0		
	1000	TYKW	45 C	0440.0	0440.3	8.0	290.0	30.0		
	9400	TYKW	5 S	0440.0	0440.4	2.0	22.0	6.0		
	3750	TYKW	5 S	0440.0	0440.5	2.0	3.0	1.0		
	2000	TYKW	45 C	0440.0	0440.6	1.0	8.0	2.0		
	2000	TYKW	45 C	0446.5	0447.3	1.5	5.0	2.0		
	3750	TYKW	5 S	0446.7	0447.3	1.5	4.0	1.5		
	1000	TYKW	45 C	0452.2	0452.8	1.0	335.0	60.0		
	2000	TYKW	5 S	0452.3	0452.8	1.0	9.0	4.0		
	3750	TYKW	45 C	0452.4	0452.8	6.0	10.0	1.5		
	9400	TYKW	5 S	0452.4	0453.0	1.5	5.0	1.5		
	1000	TYKW	8 S	0453.5	0453.6	.2	14.0	5.0		
	1000	TYKW	47 GB	0454.8	0458.0	3.8	650.0	60.0		
	9400	TYKW	5 S	0455.0	0455.5	1.5	4.0	1.5		
	1000	TYKW	45 C	0501.2	0501.5	.5	19.0	7.0		
	1000	TYKW	45 C	0504.7	0507.5	5.5	240.0	33.0		
	2000	TYKW	45 C	0504.7	0507.6	3.3	6.0	1.5		
	2840	PEKG	45 C	0505.0	0507.4	6.0	10.7	2.2		
	3750	TYKW	45 C	0505.4	0507.5	5.0	12.0	1.5		
	9400	TYKW	45 C	0505.4	0507.6	5.0	17.0	3.0		
	9395	PEKG	5 S	0506.0	0506.6	3.4	19.0	4.5		
	9395	PEKG		0506.0	0507.0	4.5				
	1000	TYKW	45 C	0516.5	0516.6	1.5	4.0	1.0		
	1000	TYKW	5 S	0520.4	0520.6	.6	9.0	3.0		
	1000	TYKW	45 C	0526.8	0528.8	3.0	43.0	6.0		
	2000	TYKW	5 S	0528.7	0528.8	.6	4.0	1.0		
	3750	TYKW	20 GRF	0540.0	0557.0	70.0	3.0	1.5		
	650	GORK		0544.2	0618.4		29.0			
	2000	TYKW	21 GRF	0545.0	0557.0	65.0	2.0	1.0		
	9395	PEKG	22 GRF	0545.0	0611.0	46.0	4.3			
	1000	TYKW	45 C	0546.0	0546.9	1.0	5.0	1.0		
	9400	TYKW	20 GRF	0550.0	0556.0	60.0	4.0	2.0U		
	650	GORK	41 F	0554.2	0554.5	35.8	38.0D			
	950	GORK	41 F	0554.2	0554.5	18.4	125.0D			
	950	GORK		0554.2	0600.6		125.0D			
	650	GORK		0554.2	0600.7		43.0			
	650	GORK		0554.2	0604.3		40.0			
	950	GORK		0554.2	0611.0		46.0			
	1000	TYKW	5 S	0554.3	0554.5	.5	180.0D	55.0		
	2000	TYKW	5 S	0554.4	0554.6	.5	2.0	.5		
	1000	TYKW	42 SER	0558.8	0558.9	1.2	230.0	20.0		
	2000	TYKW	45 C	0600.0	0601.0	1.5	5.0	1.5		
	1000	TYKW	47 GB	0600.3	0600.8	.7D	1060.0	240.0D		
	2840	PEKG	22 GRF	0603.0	0605.2	5.1	1.7			
	100	GORK	41 F	0603.6	0604.3	15.5	1140.0			
	100	GORK		0603.6	0605.4		1140.0			
	100	GORK		0603.6	0618.7		700.0			
	2000	TYKW	45 C	0604.0	0608.7	8.0	5.0	1.5D		
	2000	GORK	4 S/F	0604.1	0604.5	1.8	250.0			
	1000	TYKW	42 SER	0610.2	0611.0	8.5	57.0	2.0		

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
13	1000	TYKW	45 C	0625.7	0626.0	1.0	55.0	6.0		
	1000	TYKW	5 S	0630.8	0630.9	.5	14.0	2.0		
	1000	TYKW	45 C	0639.9	0640.2	1.0	96.0	15.0		
	100	HIRA	45 C	0656.0		.7	810.0D			
	200	HIRA	8 S	0656.0	0656.0	.5	4000.0			WL
	100	GORK	8 S	0656.0	0656.1	.3	1170.0			
	204	IZMI	8 S	0656.0	0656.1	.5	1900.0	1000.0		
	6100	KISV	8 S	0656.0	0656.1	.5	6.0			
	234	POTS	4 S/F	0656.1	0656.2	.3	7000.0	450.0		III
	113	POTS	8 S	0656.2	0656.2	.7	4200.0	1400.0		III/V
	650	GORK	41 F	0739.5	0740.4	6.0	24.0			
	650	GORK		0739.5	0745.0		30.0			
	950	GORK	41 F	0739.6	0740.4	4.4	10.0			
	950	GORK		0739.6	0743.5		3.0			
	2950	GORK	22 GRF	0743.0	0753.0	30.5	25.0			
	3000	POTS	3 S	0752.7	0753.0	1.3	19.0			
	3100	CRIM	1 S	0753.0	0753.2	2.0	21.0	7.0		
	810	KRAK	42 SER	0803.4	0806.7	27.0	58.0			
	810	KRAK		0803.4	0812.6		59.0			
	810	KRAK		0803.4	0830.4		13.0			
	5200	BERN	3 S	0804.0	0806.5	9.0	63.0			ONLY PAPER REC
	3200	BERN	3 S	0804.0	0806.5	5.0	22.0			ONLY PAPER REC
	650	GORK	4 S/F	0804.1	0806.8	9.8	69.0			
	1470	POTS	29 PBI	0805.0	0812.5	25.0	17.0			
	950	GORK	41 F	0806.0	0806.5	7.2	13.0			
	6100	KISV	4 S/F	0806.0	0806.6	3.5	42.0			
	9100	GORK	46 C	0806.0	0806.7	8.0	56.0			
	3000	POTS	29 PBI	0806.0	0806.7	14.0	21.0			
	9500	POTS	29 PBI	0806.0	0806.9	39.0	42.0			
	11800	BERN	3 S	0806.0	0807.1	3.0	56.0			ONLY PAPER REC
	9100	GORK		0806.0	0812.5		40.0			
	950	GORK		0806.0	0812.6		17.0			
	430	KRAK	42 SER	0806.1	0807.0	56.0	110.0			
	430	KRAK		0806.1	0812.0		160.0			
	430	KRAK		0806.1	0830.4		32.0			
	430	KRAK		0806.1	0853.1		42.0			
	6100	KISV	45 C	0810.0	0812.5	5.0	21.0			
	9100	GORK	29 PBI	0814.0	0814.0	20.0	15.0			
	200	GORK	41 F	0850.8	0851.1	8.7	150.0			
	200	GORK		0850.8	0852.4		460.0			
	2950	GORK	4 S/F	0852.9	0857.9	9.0	22.0			
	5200	BERN	45 C	0853.0	0857.7	9.0	24.0			ONLY PAPER REC
	3200	BERN	45 C	0853.0	0857.7	9.0	13.0			ONLY PAPER REC
	3000	POTS	4 S/F	0856.0	0857.8	4.0	24.0			
	3100	CRIM	1 S	0856.0	0858.0	5.0	25.0	8.0		
	9100	GORK	20 GRF	0856.3	0859.6	9.2	13.0			
	1470	POTS	2 S/F	0856.5	0857.8	3.5	4.0			
	9500	POTS	20 GRF	0856.5	0859.4	14.0	9.0			
	6100	KISV	45 C	0856.5	0859.5	4.0	16.0			
	113	POTS	4 S/F	0856.6	0859.5	3.5	5500.0	550.0		III
	100	GORK	4 S/F	0857.5	0858.5	2.0	3400.0			
	204	IZMI	41 F	0857.5	0859.2	2.5D	240.0			
	127	TORN	7 C	0858.0	0859.0	2.5	1600.0	800.0		
	810	KRAK	8 S	0933.7	0933.7	.8	10.0			
	430	KRAK	8 S	0944.3	0944.4	.8	150.0			
	1470	POTS	20 GRF	0948.0	1000.0	27.0	7.0			
	810	KRAK	2 S/F	0948.9	0949.8	1.6	25.0	11.0		
	650	GORK	41 F	0957.8	0957.9	2.5	35.0			
	650	GORK		0957.8	1000.2		19.0			
	950	GORK	4 S/F	0959.0	0959.7	2.6	37.0			
	930	BORD	41 F	0959.0	0959.9	2.7	58.0	3.0		
	810	KRAK	4 S/F	0959.2	1000.0	2.8	80.0	7.0		
	808	ONDR	45 C	0959.5	1001.0	3.5	90.0	9.0		
	113	POTS	4 S/F	0959.9	1000.2	.4	700.0	175.0		III
	430	KRAK	8 S	1000.0	1000.0	.2	18.0			
	3000	IZMI	5 S	1010.6	1010.9	1.2	104.0	60.0		
	810	KRAK		1058.0			740.0D			
	810	KRAK	46 C	1058.0	1059.1	11.1	580.0	86.0D		
	536	ONDR	46 C	1058.0	1102.0	9.5	306.0	36.0		
	808	ONDR	46 C	1058.0	1104.0	11.5				
	950	GORK	46 C	1058.1	1102.3	7.6	570.0			
	950	GORK		1058.1	1103.4		680.0			
	650	GORK	41 F	1058.6	1058.8U	13.4	40.0D			
	650	GORK		1058.6	1103.3		1000.0			
	930	BORD	42 SER	1058.7	1102.3	46.3	3286.0	6.0		
	7000	SAOP	41 F	1059.6						2
	7000	SAOP	28 PRE	1059.6		2.4	6.0	3.0		
	430	KRAK	45 C	1100.0	1103.5	8.6	780.0D	35.0		
	430	KRAK		1100.0	1107.8		220.0			
	3000	POTS	8 S	1100.5	1100.8	.5	5.0			
	5200	BERN	4 S/F	1100.5	1102.2	12.0	127.0			ONLY PAPER REC
	3200	BERN	4 S/F	1100.5	1102.2	7.0	68.0			ONLY PAPER REC
	1470	POTS	8 S	1100.6	1100.8	.6	13.0			
	9400	HUAN	45 C	1101.3	1103.3	3.4D	387.3	205.0		R
	7000	SAOP	45 C	1102.0		2.2				
	9500	POTS	29 PBI	1102.0	1102.2	21.0	170.0			
	6100	KISV	46 C	1102.0	1102.4	3.0	105.0			
	3000	IZMI	7 C	1102.0	1102.5	2.8	104.0	52.0		
	3000	POTS	29 PBI	1102.0	1102.5	15.0	71.0			
	9500	POTS		1102.0	1103.0					
	11800	BERN	4 S/F	1102.0	1103.0U	8.0	146.0D			ONLY PAPER REC

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			UT	UT	MINUTES	PEAK	MEAN		
13	6100 KISV		1102.0	1103.3		98.0			
	1470 POTS	29 PBI	1102.0	1103.5	23.0	190.0			
	260 ONDR	46 C	1102.0	1103.5	7.0	206.0D	32.0		
	204 IZMI	45 C	1102.0	1108.2	6.5	1450.0			
	2950 GORK	45 C	1102.1	1102.4	2.9	59.0			
	9100 GORK	4 S/F	1102.1	1102.4	1.8	200.0			
	3100 CRIM	45 C	1102.1	1102.8	3.0	77.0	25.0		
	2950 GORK		1102.1	1103.5		48.0			
	3100 CRIM		1102.1	1103.5		63.0			
	33 UPIC	46 C	1102.2	1103.0	2.6				
	113 POTS	41 F	1102.2	1103.3	6.8	6000.0	150.0		III
	29 UPIC	46 C	1102.2	1103.4	2.7				
	234 PGTS	41 F	1102.3	1103.4	5.9	62000.0	500.0		III
	228 HARS	45 C	1102.5	1103.5	6.0	760.0	120.0		
	9100 GORK	29 PBI	1103.9	1104.9	18.9	48.0			
	7000 SAOP	29 PBI	1104.2	1107.7	18.5	19.0	9.0		
	9400 HUAN	30 PBI	1104.7	1104.7	47.6	98.9	21.2		R
	33 UPIC	46 C	1107.3	1107.6	1.1				
	29 UPIC	4 S/F	1107.6	1108.2	1.0				
	808 ONDR	40 F	1114.5	1133.0	31.5	24.0	9.0		
	810 KRAK	42 SER	1115.0	1122.5	49.0	90.0			
	810 KRAK		1115.0	1142.2		130.0			
	810 KRAK		1115.0	1202.7		95.0			
	430 KRAK	42 SER	1121.2	1122.5	23.0	24.0			
	430 KRAK		1121.2	1132.9		700.0			
	113 POTS	8 S	1122.5	1122.6	.3	380.0	125.0		III
	234 POTS	8 S	1122.5	1122.6	.1	150.0	50.0		III
	7000 SAOP	4 S/F	1127.3	1128.6	3.8	99.0	49.0		15R
	9500 POTS	29 PBI	1127.5	1128.7	32.0	55.0			
	1470 POTS	42 SER	1127.5	1128.7	6.3	10.0			
	2950 GORK	3 S	1127.9	1128.7	3.6	41.0			
	5200 BERN	3 S	1128.0	1128.6	4.0	87.0			
	3200 BERN	3 S	1128.0	1128.6	4.0	40.0			
	3000 POTS	4 S/F	1128.0	1128.6	2.7	46.0			
	9400 HUAN	4 S/F	1128.0	1128.7	2.5	62.6	26.9		R
	6100 KISV	3 S	1128.0	1128.7	3.5	55.0			
	3100 CRIM	3 S	1128.0	1128.8	3.0	48.0	16.0		
	9100 GORK	46 C	1128.0	1128.8	6.5	70.0			
	9100 GORK		1128.0	1133.2		39.0			
	11800 BERN	3 S	1128.0	1133.5	7.0	75.0			
	536 ONDR	42 SER	1128.0	1142.0	22.0	52.0			
	7000 SAOP	29 PBI	1131.1	1133.0	20.1	2.6	13.0		
	9400 HUAN	4 S/F	1132.6	1133.2	2.0	37.9	14.1		R
	9100 GORK	29 PBI	1134.5	1134.5	11.3	10.0			
	650 GORK	4 S/F	1138.4	1142.2	5.8	76.0			
	1470 POTS	40 F	1139.0	1216.9	51.0	16.0			
	536 ONDR	8 S	1158.5	1158.5	.5	46.0			
	260 ONDR	8 S	1202.5	1203.0	1.5	209.0D			
	33 UPIC	45 C	1202.8	1203.1	1.1				
	7000 SAOP	4 S/F	1202.9	1203.3	1.2	16.0	8.0		0
	930 BORD	46 C	1203.1	1203.2	.4	83.0	4.0		
	113 POTS	4 S/F	1203.1	1203.3	.5	2100.0	525.0		III
	234 POTS	4 S/F	1203.1	1203.4	.4	1450.0	360.0		III
	29 UPIC	4 S/F	1203.2	1203.5	.6				
	536 ONDR	8 S	1217.0	1217.5	1.0	91.0			
	930 BORD	41 F	1232.0	1232.0	1.1	42.0	2.0		
	536 ONDR	8 S	1236.5	1237.0	.5	84.0			
	930 BORD	41 F	1238.2	1238.7	.8	66.0	2.0		
	536 ONDR	8 S	1255.5	1256.0	.5	98.0			
	536 ONDR	8 S	1305.0	1305.5	.5	52.0			
	536 ONDR	8 S	1337.0	1337.5	1.0	47.0			
	9400 HUAN	22 GRF	1343.7	1411.7	41.8	8.2	4.8		0
	430 KRAK	8 S	1346.8	1346.9	.4	24.0			
	810 KRAK	8 S	1346.8	1347.0	.8	290.0			
	2800 OTTA	1 S	1352.0	1352.2	1.2	8.6	4.2		
	930 BORD	46 C	1352.0	1352.3	1.0	87.0	4.0		
	7000 SAOP	3 S	1352.2	1352.5	2.0	16.0	8.0		10R
	810 KRAK	8 S	1353.4	1353.5	.2	13.0			
	430 KRAK	8 S	1358.0	1358.0	.6	25.0			
	930 BORD	41 F	1406.3	1407.7	2.6	93.0	2.0		
	2800 OTTA		1416.0	1417.5	14.0D	7.6			
	2800 OTTA	1 S	1435.2	1436.0	2.0	7.6	3.4		
	930 BORD	8 S	1523.8	1523.8	.1	53.0	1.0		
	9400 HUAN	21 GRF	1531.0	1549.2	41.7	6.6	3.7		0
	9400 HUAN	2 S/F	1536.1	1537.0	1.2	9.9	5.3		0
	930 BORD	41 F	1606.0	1606.0	.4	27.0	2.0		
	9400 HUAN	21 GRF	1632.0	1650.5	43.0	18.1	7.9		R
	7000 SAOP	45 C	1646.7	1653.8	10.7	45.0	22.0		18R
	9400 HUAN	2 S/F	1646.8	1648.3	1.9	24.7	13.8		R
	2800 OTTA	2 S/F	1648.0	1648.1	1.3	8.6			
	9400 HUAN	4 S/F	1652.1	1654.7	4.2	31.3	15.5		R
	7000 SAOP	29 PBI	1657.4	1700.2	7.3	21.0	10.0		
	9400 HUAN	41 F	1820.7	1824.4	16.0	41.2	24.2		R
	9400 HUAN		1820.7	1827.7		84.0			R
	9400 HUAN		1820.7	1829.3		23.1			R
	9400 HUAN		1820.7	1830.1		21.4			R
	7000 SAOP	45 C	1820.8	1827.7	11.2	96.0	48.0		9R
	2800 OTTA	40 F	1823.0	1830.0	10.0	10.4			
	7000 SAOP	29 PBI	1832.0		5.1	6.0	3.0		
	606 SGMR	8 S	1834.0	1834.1	1.6	82.0			
	606 SGMR	8 S	1845.5	1845.8	.3	440.0			

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
13	7000	SAOP	3 S	1920.7	1921.8	2.5	21.0	10.0		16R
	9400	HUAN	2 S/F	1921.0	1921.9	1.7	19.8	10.5		0
	7000	SAOP	29 PBI	1923.2	1930.7	19.3	6.0	3.0		
	606	SGMR	8 S	2006.6	2007.3	1.2	35.0			
	8800	SGMR	8 S	2015.3	2015.6	.5	240.0			
	245	LEAR	8 S	2151.1	2151.6	.9	400.0			
	9400	HUAN	1 S	2155.1	2155.5	1.1	8.2	4.9		0
	606	LEAR	8 S	2202.0	2202.1	.5	42.0			
	2000	TYKW	5 S	2254.5	2255.0	1.5	2.0	.7		
	1000	TYKW	45 C	2254.5	2255.4	3.5	170.0	15.0		
	606	LEAR	8 S	2254.6	2255.3	1.0	130.0			
	1000	TYKW	45 C	2259.6	2259.7	1.0	7.0	1.0		
	9400	TYKW	21 GRF	2305.0	0024.0	190.0	16.0	7.0		
	3750	TYKW	21 GRF	2305.0	0024.0	305.0	25.0	9.0		
	2000	TYKW	21 GRF	2305.0	0024.0	305.0	14.0	6.0		
	1000	TYKW	21 GRF	2305.0	0030.0	300.0	8.0	4.0		
	2000	TYKW	5 S	2305.0	2309.5	8.0	7.0	3.0		
	3750	TYKW	5 S	2306.0	2309.0	7.0	2.0	1.0		
	1000	TYKW	45 C	2308.5	2309.3	6.0	22.0	3.0		
	9400	TYKW	5 S	2314.0	2317.0	10.0	6.0	2.0		
	3750	TYKW	5 S	2315.5	2316.0	1.0	4.0	1.0		
	2000	TYKW	5 S	2315.7	2316.2	1.0	9.0	2.5		
	1000	TYKW	45 C	2315.7	2316.2	.8	170.0D	25.0		
	2695	LEAR	8 S	2315.8	2316.0	.3	18.0			
	606	LEAR	47 GB	2315.8	2316.1	.3	520.0			
	3750	TYKW	5 S	2318.0	2320.0	5.0	2.0	1.0		
	2930	VORO	3 S	2320.0	2322.0	3.0	24.0			
	2000	TYKW	45 C	2330.0	2331.2	4.0	4.0	1.5		
	1000	TYKW	45 C	2330.0	2331.7	3.0	14.0	1.5		
	3750	TYKW	5 S	2330.0	2332.6	6.0	6.0	1.5		
	9400	TYKW	5 S	2331.5	2332.6	3.5	5.0	1.5		
	1000	TYKW	45 C	2336.0	2336.9	1.2	69.0	9.0		
	1000	TYKW	45 C	2338.0	2339.7	3.0	170.0D	25.0		
	606	LEAR	4 S/F	2338.3	2339.8	2.5	99.0			
	2000	TYKW	45 C	2338.5	2339.6	2.5	4.0	1.0		
	9400	TYKW	45 C	2338.6	2339.2	2.4	21.0	10.0		
	200	HIRA	42 SER	2338.6	2339.6	6.7	300.0			WL
	17000	NOBE	7 C	2338.8		23.0				
	1415	PALE	8 S	2338.8	2339.0	.3	27.0			
	1415	LEAR	8 S	2338.8	2339.0	1.0	20.0			
	8800	LEAR	8 S	2338.8	2339.1	1.8	24.0			
	15400	LEAR	8 S	2338.8	2339.1	1.0	20.0			
	17000	NOBE		2338.8	2339.1		17.0			R
	8800	PALE	8 S	2338.8	2339.3	1.8	29.0			
	17000	NOBE		2338.8	2344.0		28.0			R
	17000	NOBE		2338.8	2356.6		17.0			0
	3750	TYKW	45 C	2339.0	2340.6	2.5	6.0	1.5		
	245	LEAR	8 S	2339.3	2340.6	1.7	26.0			
	410	LEAR	8 S	2340.3	2340.5	.8	30.0			
	9400	TYKW	30 PBI	2342.0		7.0	3.0	1.5		
	1000	TYKW	45 C	2342.5	2344.3	4.5	208.0	35.0		
	606	LEAR	47 GB	2342.5	2344.3	4.3	600.0			
	4995	PALE	8 S	2343.6	2343.8	.9	70.0			
	4995	LEAR	8 S	2343.6	2344.0	.9	70.0			
	8800	PALE	8 S	2343.6	2344.0	1.0	110.0			
	8800	LEAR	8 S	2343.6	2344.0	1.0	100.0			
	15400	LEAR	8 S	2343.6	2344.1	1.0	37.0			
	2000	TYKW	5 S	2343.7	2344.1	3.0	14.0	3.0		
	9400	TYKW	5 S	2343.7	2344.1	1.3	80.0	30.0		
	3750	TYKW	45 C	2343.7	2344.1	2.0	37.0	8.0		
	2695	PALE	8 S	2343.8	2343.8	.3	23.0			
	15400	PALE	8 S	2343.8	2344.0	.3	38.0			
	2695	LEAR	8 S	2343.8	2344.0	.3	20.0			
	245	LEAR	4 S/F	2343.8	2344.0	2.8	130.0			
	410	LEAR	4 S/F	2344.0	2344.0	2.6	19.0			
	9400	TYKW	29 PBI	2345.0		3.0	6.0	3.0		
	2930	VORO	40 F	2345.0	2349.0	10.0	24.0			
	3750	TYKW	5 S	2353.0	2356.5	6.0	47.0	10.0		
	2000	TYKW	45 C	2353.0	2356.7	5.0	11.0	3.0		
	9400	TYKW	45 C	2354.0	2356.6	5.0	36.0	10.0		
	1000	TYKW	45 C	2354.0	2356.6	6.0	78.0	13.0		
	4995	PALE	8 S	2355.3	2356.3	1.8	58.0			
	4995	LEAR	4 S/F	2355.3	2356.5	3.0	58.0			
	606	LEAR	4 S/F	2355.3	2356.6	3.7	79.0			
	2695	PALE	8 S	2355.5	2356.3	1.1	27.0			
	2695	LEAR	4 S/F	2355.5	2356.3	2.3	27.0			
	410	LEAR	8 S	2355.6	2356.1	1.5	100.0			
	8800	PALE	4 S/F	2355.8	2356.3	2.3	57.0			
	8800	LEAR	4 S/F	2355.8	2356.5	2.8	47.0			
	1415	PALE	8 S	2355.8	2356.6	1.0	42.0			
	1415	LEAR	8 S	2356.1	2356.6	1.2	36.0			
	15400	LEAR	8 S	2356.1	2356.6	1.9	21.0			
	15400	PALE	8 S	2356.3	2356.5	.5	27.0			
	9400	TYKW	29 PBI	2359.0		15.0	5.0	2.5		
	3750	TYKW	29 PBI	2359.0		5.0	3.0	2.0D		
14	208	VORO	44 NS	0000.0E		240.0D		14.0		
	606	LEAR	43 NS	0102.3	0309.6	562.7D	180.0			
	100	GORK	44 NS	0530.0E		66.0D		5.0		
	200	GORK	44 NS	0530.0E		330.0D		5.0		
	127	TORN	44 NS	0630.0E		470.0D		3.0		V1,DISTURBED

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	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
14	260	ONDR	44	NS	0749.0E		373.0D	8.0			
	245	SGMR	43	NS	1314.8	1406.5	464.2D	88.0			
	410	LEAR	43	NS	2151.0	0005.3	755.0	130.0			
	245	LEAR	43	NS	2151.0	0609.1	755.0	180.0			
	2840	PEKG	20	GRF	0021.0	0023.0	10.0	9.0			
	9395	PEKG	20	GRF	0021.0	0023.2	9.0	5.2			
	9395	PEKG	45	C	0039.0	0039.8	13.0	15.0	4.6		
	3750	TYKW	5	S	0039.0	0039.9	2.0	6.0	2.0		
	9400	TYKW	5	S	0039.0	0039.9	2.0	16.0	7.0		
	2840	PEKG	5	S	0039.0	0041.4	16.0D	8.0			
	4995	PALE	8	S	0039.3	0039.8	.7	18.0			
	8800	PALE	8	S	0039.3	0039.8	.7	26.0			
	3750	TYKW	29	PBI	0041.0		8.0	2.0	1.0		
	9400	TYKW	29	PBI	0041.0		10.0	5.0	2.5		
	9395	PEKG	20	GRF	0052.0	0103.3	41.0	8.6	2.4		
	1000	TYKW	42	SER	0053.0	0059.3	10.0	77.0	2.0		
	606	LEAR	4	S/F	0053.5	0056.5	3.3	20.0			
	3750	TYKW	45	C	0058.0	0059.2	7.0	2.5	1.0		
	2000	TYKW	5	S	0059.0	0059.2	1.0	1.5	.5		
	2840	PEKG	20	GRF	0059.0	0103.4	57.0	4.4	2.8		
	2000	TYKW	5	S	0101.0	0101.4	1.0	1.0	.3		
	245	LEAR	8	S	0101.1	0101.3	.5	23.0			
	606	LEAR	8	S	0101.1	0101.3	.5	11.0			
	9400	TYKW	5	S	0102.9	0103.1	.5	3.0	1.0		
	3750	TYKW	45	C	0115.0	0115.5	5.0	3.5	1.5		
	1000	TYKW	42	SER	0121.0	0122.5	7.0	24.0	1.5		
	1000	TYKW			0121.0	0127.5		24.0			
	9400	TYKW	5	S	0125.0	0127.0	6.0	3.0	1.5		
	1415	CEAR	8	S	0127.0	0127.1	.5	17.0			
	606	LEAR	8	S	0127.0	0127.1	.8	130.0			
	2000	TYKW	45	C	0127.0	0127.3	1.0	37.0	6.0		
	3750	TYKW	5	S	0130.0	0135.4	12.0	2.0	.7		
	1000	TYKW	45	C	0134.0	0135.3	2.5	13.0	1.0		
	2000	TYKW	45	C	0134.0	0135.4	2.0	25.0	2.0		
	1000	TYKW	5	S	0201.3	0201.4	.5	7.0	1.5		
	1000	TYKW	42	SER	0220.7	0224.5	4.0	7.0	1.0		
	1000	TYKW	8	S	0229.0	0229.1	.2	12.0	3.0		
	1000	TYKW	45	C	0233.0	0233.2	.5	36.0	8.0		
	1000	TYKW	8	S	0239.5	0239.6	.3	3.0	1.0		
	3750	TYKW	21	GRF	0240.0	0317.0	80.0	4.0	2.0		
	9400	TYKW	21	GRF	0250.0	0309.0	70.0	4.0	2.0		
	3750	TYKW	5	S	0308.5	0309.6U	5.5	4.0U	1.5D		
	1000	TYKW	45	C	0309.0	0309.5	1.0	6.0	1.5		
	2000	TYKW	5	S	0309.0	0309.5	1.5	2.0	.7		
	8800	PALE	8	S	0309.1	0309.1	.2	13.0			
	606	PALE	8	S	0309.1	0309.6	.7	170.0			
	1000	TYKW	42	SER	0315.5	0318.2	5.7	6.0	.7		
	9400	TYKW	5	S	0330.5	0331.0	1.0	3.0	1.0		
	1000	TYKW	45	C	0332.3	0332.5	.5	3.0	.5		
	9400	TYKW	5	S	0333.0	0335.1	6.0	6.0	2.0		
	2000	TYKW	45	C	0333.5	0335.0	2.5	5.0	1.5		
	1000	TYKW	45	C	0334.0	0334.9	2.5	137.0	12.0		
	3750	TYKW	5	S	0334.0	0334.9	3.0	6.0	2.0		
	606	LEAR	8	S	0334.3	0334.6	.8	79.0			
	245	LEAR	8	S	0334.5	0334.8	.6	130.0			
	410	LEAR	4	S/F	0334.6	0334.6	10.4	21.0			
	1000	TYKW	45	C	0340.0	0340.6	1.0	7.0	1.0		
	1000	TYKW	45	C	0344.0	0345.0	4.2	15.0	1.5		
	3750	TYKW	5	S	0345.0	0346.3	6.0	4.0	1.5U		
	2000	TYKW	5	S	0347.5	0347.7	.5	2.0	.5		
	9395	PEKG	45	C	0415.0		10.0	20.0			
	9395	PEKG			0415.0	0421.1		93.0			
	1000	TYKW	47	GB	0417.0	0420.9	10.0	530.0	30.0		
	9400	TYKW	45	C	0417.0	0421.1	10.0	115.0	17.0		
	2000	TYKW	45	C	0417.0	0421.1	10.0	7.0	2.0		
	3750	TYKW	45	C	0417.0	0422.2	10.0	15.0	6.0		
	2840	PEKG	21	GRF	0417.0	0445.6	33.0	4.0	2.0		
	17000	NOBE	7	C	0417.2	0421.1	12.0	117.0			R
	2840	PEKG	45	C	0419.0	0422.2	6.0	6.1	2.2		
	9395	PEKG	29	PBI	0425.0		27.0	11.0	6.2		
	3750	TYKW	29	PBI	0427.0		30.0	2.0	1.0		
	9400	TYKW	29	PBI	0427.0		30.0	5.0	2.5		
	245	LEAR	8	S	0505.0	0505.3	1.0	47.0			
	410	LEAR	8	S	0505.0	0505.3	1.0	22.0			
	1000	TYKW	45	C	0505.0	0505.5	1.0	4.0	1.5		
	606	LEAR	8	S	0505.0	0505.6	1.0	25.0			
	245	LEAR	8	S	0508.3	0508.6	.8	160.0			
	1000	TYKW	45	C	0508.3	0509.0	1.0	32.0	9.0		
	410	LEAR	8	S	0508.5	0508.6	.6	95.0			
	606	LEAR	8	S	0508.5	0508.6	.6	21.0			
	3750	TYKW	28	PRE	0515.0	0527.6	19.0	5.0	2.5		
	9395	PEKG	28	PRE	0518.0	0527.5	14.0	5.4			
	9400	TYKW	28	PRE	0524.0	0527.6	10.0	4.0	2.0		
	1000	TYKW	42	SER	0525.0	0526.2	3.0	4.0	.5		
	2840	PEKG	28	PRE	0525.0	0528.6	7.0	4.1	2.3		
	2000	TYKW	28	PRE	0526.0	0527.7	9.0	4.0	1.0		
	1415	LEAR	8	S	0527.3	0527.8	1.0	260.0			
	9395	PEKG	45	C	0530.0	0536.8	14.0	104.0	29.0		
	2840	PEKG			0532.0	0536.8		62.0			
	2840	PEKG	45	C	0532.0	0540.2	13.0	34.0	9.6		
	9395	PEKG			0532.0	0540.3		162.0			

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
14	1000	TYKW	5 S	0533.0	0533.3	.6	4.0	1.0		
	2950	GORK	41 F	0533.0	0536.8	17.0	43.0			
	2950	GORK		0533.0	0540.3		22.0			
	200	GORK	41 F	0533.3	0536.8	57.2	180.0			
	200	GORK		0533.3	0541.9		180.0D			
	200	GORK		0533.3	0551.8		40.0			
	200	GORK		0533.3	0630.2		40.0			
	100	GORK	41 F	0533.4	0534.1	9.5	60.0			
	100	GORK		0533.4	0536.7		700.0D			
	100	GORK		0533.4	0541.9		700.0			
	1000	TYKW	45 C	0534.0	0534.1	4.5	131.0D	35.0		
	410	LEAR	47 GB	0534.0	0536.5	8.3	170.0			
	950	GORK	46 C	0534.0	0536.6	11.0	37.0			
	3750	TYKW	45 C	0534.0	0536.8	4.0	96.0	17.0		
	9400	TYKW	45 C	0534.0	0536.8	4.0	119.0	22.0		
	606	LEAR	47 GB	0534.0	0536.8	12.5	44.0			
	650	GORK	41 F	0534.0	0537.0	59.0	20.0			
	950	GORK		0534.0	0540.0		119.0			
	650	GORK		0534.0	0540.1		14.0D			
	650	GORK		0534.0	0544.7		218.0			
	950	GORK		0534.0	0545.0		292.0			
	650	GORK		0534.0	0630.6		19.0			
	245	LEAR	47 GB	0534.1	0535.3	6.7	780.0			
	9100	GORK	46 C	0534.6	0536.9	10.7	123.0			
	9100	GORK		0534.6	0540.2		200.0			
	4995	LEAR	47 GB	0534.8	0536.8	11.7	119.0			
	8800	LEAR	47 GB	0534.8	0536.8	13.8	160.0			
	2000	TYKW	45 C	0535.0	0537.9	4.0	62.0	15.0		
	2695	LEAR	47 GB	0535.6	0536.8	10.9	73.0			
	1415	LEAR	47 GB	0535.8	0536.1	5.2	79.0			
	17000	NOBE	7 C	0536.2	0540.5	16.0	117.0			R
	8800	ATHN	47 GB	0536.3	0536.8	9.0	139.0			
	15400	LEAR	47 GB	0536.5	0536.8	12.1	46.0			
	3750	TYKW	30 PBI	0538.0		35.0	14.0	5.0		
	9400	TYKW	30 PBI	0538.0		35.0	20.0	9.0		
	1000	TYKW	30 PBI	0538.5		10.0	3.0	1.5		
	2000	TYKW	30 PBI	0539.0		30.0	5.0	2.0		
	9400	TYKW	45 C	0539.5	0540.3	4.5	167.0	30.0		
	3750	TYKW	45 C	0539.5	0540.3	4.5	56.0	10.0		
	2000	TYKW	45 C	0539.5	0540.3	3.5	20.0	5.0		
	1000	TYKW	45 C	0539.5	0542.2	4.5	134.0	25.0		
	500	HIRA	45 C	0539.6	0540.0	1.3	120.0	30.0		WL
	3750	TYKW	5 S	0544.0	0544.6	1.5	13.0	5.0		
	9400	TYKW	45 C	0544.0	0544.6	1.5	38.0	14.0		
	1000	TYKW	47 GB	0544.0	0544.8	1.5	830.0	80.0		
	2000	TYKW	45 C	0544.0	0545.1	1.5	54.0	7.0		
	2840	PEKG	29 PBI	0545.0		17.0	6.3	2.0		
	9100	GORK	29 PBI	0545.3	0545.6	25.0				
	9395	PEKG	29 PBI	0546.0		18.0	13.0	7.2		
	1000	TYKW	42 SER	0553.0	0554.9	3.0	5.0	1.0		
	606	LEAR	8 S	0559.5	0600.6	1.1	70.0			
	245	LEAR	47 GB	0559.5	0600.8	1.3	500.0			
	410	LEAR	8 S	0559.5	0600.8	1.3	57.0			
	1000	TYKW	45 C	0614.7	0614.8	.5	20.0	5.0		
	950	GORK	4	0617.0	0617.6	1.0	71.0			
	2000	TYKW	5 S	0617.0	0617.7	5.0	3.0	1.0		
	3750	TYKW	5 S	0617.0	0617.7	5.0	4.0	1.5		
	9400	TYKW	5 S	0617.0	0617.7	5.0	5.0	2.0		
	1000	TYKW	45 C	0617.0	0617.7	2.0	70.0	12.0		
	2840	PEKG	5 S	0627.0	0628.0	5.0	16.0	2.2		
	9395	PEKG	1 S	0627.0	0628.2	7.0	4.0			
	950	GORK	4 S/F	0627.4	0630.4	4.5	51.0			
	6100	KISV	2 S/F	0627.5	0628.0	1.0	5.0			
	2000	TYKW	5 S	0627.5	0628.0	1.5	5.0	1.5		
	3750	TYKW	5 S	0627.5	0628.0	1.5	10.0	2.5		
	1000	TYKW	45 C	0627.5	0628.2	2.0	12.0	1.5		
	100	GORK	41 F	0627.6	0627.9	3.3	30.0			
	2950	GORK	1 S	0627.6	0628.0	1.6	6.4	3.2		
	100	GORK		0627.6	0630.1		80.0			
	1000	TYKW	45 C	0629.9	0630.3	2.5	55.0	10.0		
	1000	TYKW	8 S	0633.7	0633.8	.2	8.0	2.0		
	6100	KISV	21 GRF	0715.0	0726.0	33.0	11.0			
	9100	GORK	21 GRF	0715.0	0728.6	37.0	13.0			
	2840	PEKG	22 GRF	0717.0	0720.6	22.0	7.6	2.8		
	9395	PEKG	45 C	0718.0	0720.5	19.0	14.0	6.2		
	2950	GORK	22 GRF	0719.4	0720.2	14.6	5.4			
	6100	KISV	2 S/F	0719.7	0720.4	1.5	10.0			
	9100	GORK	1 S	0719.9	0720.4	1.6	16.0	8.0		
	4995	LEAR	8 S	0720.1	0720.3	.9	11.0			
	8800	LEAR	8 S	0720.1	0720.3	.9	20.0			
	9100	GORK	2 S/F	0725.2	0726.0	3.4	13.0			
	8800	LEAR	4 S/F	0725.6	0725.8	2.5	19.0			
	950	GORK	4 S/F	0736.7	0739.6	5.2	37.0			
	2950	GORK	1 S	0753.5	0754.0	1.0	3.2	1.6		
	650	GORK	41 F	0753.8	0802.4	37.4	27.0			
	650	GORK		0753.8	0821.1		10.0			
	650	GORK		0753.8	0827.4		6.5			
	810	KRAK	42 SER	0758.0	0802.0	34.5	270.0			
	810	KRAK		0758.0	0821.4		730.0D			
	810	KRAK		0758.0	0827.3		140.0			
	950	GORK	4 S/F	0758.2	0802.0	6.0	130.0			

SOLAR RADIO EMISSION
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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
14	100	GORK	41 F	0800.0	0800.9	2.7	100.0			
	100	GORK		0800.0	0802.4		700.0			
	113	POTS	42 SER	0800.4	0830.5	31.0	2800.0	15.0		III
	6100	KISV	4 S/F	0801.5	0802.1	3.0	15.0			
	260	ONDR	8 S	0801.5	0802.5	1.0	114.0			
	9100	GORK	1 S	0801.8	0802.2	1.8	20.0	10.0		
	245	LEAR	8 S	0802.0	0802.1	.3	320.0			
	1415	LEAR	8 S	0802.0	0802.1	.5	19.0			
	1470	POTS	4 S/F	0802.0	0802.1	1.5	13.0			
	2950	GORK	1 S	0802.0	0802.2	1.4	13.0	6.5		
	9500	POTS	3 S	0802.0	0802.2	1.0	13.0			
	200	GORK	41 F	0802.0	0802.3	28.9	50.0D			
	606	LEAR	8 S	0802.0	0802.3	.5	43.0			
	3000	POTS	3 S	0802.0	0802.4	1.3	25.0			
	5200	BERN	3 S	0802.0	0803.0	1.0	27.0			
	3200	BERN	3 S	0802.0	0803.0	1.0	19.0			
	200	GORK		0802.0	0821.2		50.0			
	200	GORK		0802.0	0830.7		17.0			
	2695	LEAR	8 S	0802.1	0802.3	.2	18.0			
	950	GORK	41 F	0819.1	0821.5	12.2	132.0			
	950	GORK		0819.1	0828.0		39.0			
	808	ONDR	8 S	0820.0	0822.5	2.5	152.0			
	100	GORK	41 F	0820.2	0821.2	10.5	100.0D			
	100	GORK		0820.2	0828.1		40.0			
	100	GORK		0820.2	0830.5U		100.0D			
	5200	BERN	3 S	0820.5	0821.0	1.0	52.0			
	3000	POTS	3 S	0820.5	0821.0	1.0	32.0			
	3200	BERN	3 S	0820.5	0821.0	1.0	39.0			
	1470	POTS	3 S	0820.5	0821.1	1.5	10.0			
	6100	KISV	4 S/F	0820.6	0821.0	2.0	31.0			
	9500	POTS	3 S	0820.6	0821.0	.9	21.0			
	8400	BERN	1 S	0820.6	0821.0	1.0	49.0			
	9100	GORK	3 S	0820.7	0821.0	1.4	38.0	19.0		
	2950	GORK	3 S	0820.7	0821.1	1.0	32.0	16.0		
	2695	LEAR	8 S	0820.8	0821.0	.7	37.0			
	4995	LEAR	8 S	0820.8	0821.0	.7	42.0			
	410	LEAR	8 S	0820.8	0821.0	.3	49.0			
	8800	LEAR	8 S	0820.8	0821.0	.7	48.0			
	8800	ATHN	8 S	0820.8	0821.1	1.5	28.0			
	430	KRAK	7 C	0820.9	0821.0	2.0	110.0	6.0		
	204	IZMI	41 F	0821.0	0821.0	1.3	40.0			
	245	LEAR	8 S	0821.0	0821.1	.3	10.0			
	245	LEAR	8 S	0830.3	0830.5	.3	100.0			
	430	KRAK	8 S	0853.4	0853.6	1.1	650.0			
	33	UPIC	42 SER	0907.2	0932.5	26.2				
	29	UPIC	42 SER	0907.5	0923.6	16.5U				
	430	KRAK	8 S	0919.7	0919.7	.2	21.0			
	810	KRAK	42 SER	0920.3	0947.2	40.0	35.0			
	127	TORN	8 S	0944.5	0945.3	1.0	2500.0	1300.0		
	100	GORK	41 F	0944.7	0945.0	6.9	90.0D			
	100	GORK		0944.7	0950.1		90.0D			
	200	GORK	41 F	0944.8	0944.9	37.0	45.0			
	113	POTS	4 S/F	0944.8	0945.0	.9	1950.0	400.0		III
	200	GORK		0944.8	0950.2		45.0			
	200	GORK		0944.8	1020.0		10.0			
	650	GORK	1 S	0946.7	0947.1	.6	2.0			
	260	ONDR	8 S	1003.0	1003.5	1.5	189.0			
	810	KRAK	45 C	1011.6	1018.0	8.2	240.0	24.0		
	810	KRAK		1011.6	1019.8		200.0			
	650	GORK	41 F	1012.0	1020.8	17.7	6.5			
	650	GORK		1012.0	1027.9U		37.0			
	950	GORK	46 C	1014.5	1018.0	7.0	131.0			
	950	GORK		1014.5	1020.6		60.0			
	808	ONDR	46 C	1016.0	1018.5	8.5	111.0	11.0		
	6100	KISV	45 C	1016.8	1017.8	2.0	9.0			
	3000	POTS	42 SER	1017.0	1020.5	4.5	10.0			
	9100	GORK	2 S/F	1017.2	1017.7	6.2	20.0			
	9500	POTS	42 SER	1017.3	1017.7	5.2	14.0			
	100	GORK	4 S/F	1019.1	1019.9	1.8	80.0			
	6100	KISV	3 S	1019.3	1020.6	3.0	6.0			
	2950	GORK	1 S	1019.6	1020.2	1.7	5.4	2.7		
	810	KRAK	8 S	1024.5	1024.5	.2	53.0			
	430	KRAK	8 S	1026.1	1026.2	.2	27.0			
	6100	KISV	1 S	1027.0	1027.5	1.5	4.0			
	810	KRAK	8 S	1206.5	1206.5	.2	16.0			
	127	TORN	42 SER	1214.2	1228.2	16.7	800.0			
	9400	HUAN	20 GRF	1214.7	1226.0	19.9	5.1	3.4		0
	536	ONDR	8 S	1252.5	1253.0	1.0	104.0			
	260	ONDR	8 S	1252.5	1253.5	1.5	185.0			
	8800	ATHN	8 S	1259.6	1300.1	1.7	28.0			
	113	POTS	42 SER	1301.6	1305.8	4.4	200.0	3.0		
	808	ONDR	40 F	1306.0	1311.0	6.5	20.0	6.0		
	810	KRAK	45 C	1307.8	1310.6	4.6	76.0	4.0		
	113	POTS	8 S	1339.9	1340.1	1.0	35000.0	1200.0		III
	234	POTS	4 S/F	1340.0	1340.1	.3	260.0	50.0		III
	2800	OTTA	21 GRF	1340.0	1415.0	150.0	9.4	4.7		
	113	POTS	4 S/F	1353.6	1354.0	1.1	1800.0	450.0		
	430	KRAK	42 SER	1354.1	1355.1	28.0	390.0			
	430	KRAK		1354.1	1405.7		270.0			
	245	SGMR	8 S	1406.1	1406.3	.7	90.0			
	410	SGMR	8 S	1406.3	1406.5	1.0	54.0			

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
14	113	POTS	4 S/F	1411.4	1412.1	1.3	300.0	30.0		
	9400	HUAN	20 GRF	1414.8	1430.0	29.0	3.4	0.7		O
	2800	OTTA	1 S	1449.0	1501.0	14.0U	4.2	2.1		
	410	SGMR	4 S/F	1459.1	1459.6	3.7	38.0			
	9400	HUAN	2 S/F	1459.1	1500.3	2.4	6.8	2.6		R
	606	SGMR	8 S	1459.6	1500.8	1.5	200.0			
	7000	SAOP	40 F	1500.0						
	2800	OTTA	2 S/F	1550.2	1550.5	2.0	3.8	2.7		
	2800	OTTA	240 R	1620.0	1700.0	40.0	3.8	1.9		
	7000	SAOP	28 PRE	1918.7	1919.0	8.0	9.0	4.0		
	2800	OTTA	21 GRF	1925.0	1929.0	14.0	4.6	2.3		
	9400	HUAN	4 S/F	1926.3	1927.4	3.7	47.6	19.2		R
	7000	SAOP	45 C	1926.6	1927.3	3.6	53.0	26.0		6R
	410	PALE	8 S	1926.8	1927.1	.5	300.0			
	1415	SGMR	4 S/F	1926.8	1927.3	3.2	15.0			
	410	SGMR	8 S	1926.8	1927.3	.7	130.0			
	8800	PALE	4 S/F	1926.8	1927.3	3.0	61.0			
	4995	SGMR	8 S	1927.1	1927.3	2.0	26.0			
	4995	PALE	8 S	1927.1	1927.3	2.0	26.0			
	245	SGMR	8 S	1927.1	1927.3	.5	350.0			
	245	PALE	8 S	1927.1	1927.3	1.5	460.0			
	15400	PALE	8 S	1927.1	1927.3	2.0	46.0			
	8800	SGMR	4 S/F	1927.1	1927.3	2.2	37.0			
	15400	SGMR	4 S/F	1927.1	1927.3	2.9	48.0			
	2800	OTTA	2 S/F	1927.1	1927.4	1.0	5.6			
	606	SGMR	4 S/F	1927.1	1927.8	3.2	18.0			
	9400	HUAN	29 PBI	1930.0	1930.0	9.7	8.5	5.9		R
	7000	SAOP	29 PBI	1930.3		10.0	12.0	6.0		
	2800	OTTA	3 S	1957.0	1959.5	13.0	25.0	10.0		
	2800	OTTA	240AR	1957.0	2042.0	45.0	11.0	5.5		
	8800	SGMR	4 S/F	1958.1	2000.0	3.4	13.0			
	9400	HUAN	1 S	1958.1	2000.2	2.7	10.2	7.1		R
	4995	SGMR	4 S/F	1958.1	2000.3	3.4	24.0			
	2695	PALE	4 S/F	1958.3	1959.5	6.7	31.0			
	1415	SGMR	4 S/F	1958.5	2000.0	2.6	30.0			
	1415	PALE	8 S	1958.6	1959.3	2.0	24.0			
	606	PALE	8 S	1958.6	1959.3	1.4	20.0			
	606	SGMR	8 S	1958.6	1959.5	1.5	21.0			
	2695	SGMR	4 S/F	1958.6	2000.0	2.7	28.0			
	8800	PALE	8 S	1958.8	1959.3	.7	20.0			
	4995	PALE	8 S	1958.8	1959.5	1.3	19.0			
	8800	PALE	8 S	2025.1	2025.6	2.0	27.0			
	2695	PENT	29 PBI	2130.0	2130.0	30.0D	25.0			
	410	PALE	8 S	2141.5	2141.6	.3	83.0			
	245	PALE	8 S	2145.8	2146.1	.5	74.0			
	200	HIRA	46 C	2147.0U	2159.0	50.0D	127.0	26.0		WL,SUNRISE
	245	LEAR	47 GB	2155.1	2156.6	10.0	72.0			
	410	LEAR	47 GB	2155.1	2158.3	10.0	57.0			
	500	HIRA	45 C	2155.1	2201.6	36.0	140.0	20.0		WL
	8800	PALE	47 GB	2155.3	2155.8	13.7	34.0			
	245	PALE	47 GB	2155.3	2156.1	13.7	500.0			
	410	PALE	4 S/F	2155.3	2156.3	13.7	36.0			
	15400	PALE	47 GB	2155.5	2157.3	13.5	32.0			
	1415	PALE	47 GB	2155.5	2157.8	13.5	30.0			
	606	PALE	47 GB	2155.6	2156.1	13.4	31.0			
	4995	PALE	47 GB	2155.6	2156.3	13.4	20.0			
	9400	HUAN	47 GB	2155.6	2207.3	28.8	1096.5	418.0		R
	2695	PALE	47 GB	2155.8	2157.8	13.2	18.0			
	100	HIRA	46 C	2156.0	2205.0	73.0	875.0	34.0		
	2000	TYKW	47 GB	2156.0	2205.8	34.0	600.0	230.0		
	3750	TYKW	47 GB	2156.0	2205.9	34.0	970.0	300.0		
	9400	TYKW	47 GB	2156.0	2206.3	24.0	850.0	330.0		
	1000	TYKW	45 C	2156.0	2216.1	34.0	170.0	75.0		
	1415	LEAR	47 GB	2158.0	2158.6	7.1	23.0			
	2695	PENT	47 GB	2158.0	2206.0	32.0	1135.0	440.0		
	8800	LEAR	47 GB	2158.3	2200.8	6.8	170.0			
	15400	LEAR	47 GB	2158.3	2202.8	6.8	310.0			
	2695	LEAR	47 GB	2158.6	2200.8	6.5	280.0			
	4995	LEAR	47 GB	2158.6	2200.8	6.5	220.0			
	606	LEAR	47 GB	2159.1	2200.8	6.0	110.0			
	17000	NOBE	46 C	2200.0	2207.3	19.0	401.0			R
	4995	MANI	40 F	2201.0D	2204.7D	28.0E	3407.5D	1135.8D		
	606	MANI	40 F	2201.0D	2210.0D	28.0E	60.0D	30.0D		
	2695	MANI	40 F	2201.0D	2210.0D	28.0E	2829.3D	943.1D		
	1415	MANI	40 F	2201.0D	2210.1D	26.0E	408.2D	136.1D		
	8800	MANI	40 F	2201.0D	2213.1D	30.0E	1730.9D	577.0D		
	2695	PALE	4 S/F	2209.0	2209.1	27.1	840.0			
	8800	PALE	4 S/F	2209.0	2209.1	27.1	880.0			
	4995	PALE	4 S/F	2209.0	2209.1	27.1	960.0			
	1415	PALE	4 S/F	2209.0	2209.1	27.1	310.0			
	606	PALE	4 S/F	2209.0	2211.1	27.1	46.0			
	17000	NOBE	29 PBI	2219.0	2219.0	40.0	24.0			O
	9400	TYKW	30 PBI	2220.0		150.0	80.0	15.0		
	1000	TYKW	30 PBI	2230.0		150.0	10.0	3.0		
	3750	TYKW	30 PBI	2230.0		150.0	30.0	9.0		
	2000	TYKW	30 PBI	2230.0		150.0	22.0	6.0		
	15400	PALE	8 S	2236.3	2236.3	18.5	83.0			
	8800	PALE	8 S	2236.3	2236.6	18.5	70.0			
	4995	PALE	8 S	2236.3	2236.8	18.5	34.0			
	2695	PALE	8 S	2236.3	2236.8	18.5	16.0			
	606	PALE	8 S	2236.3	2237.8	18.5	16.0			

SOLAR RADIO EMISSION
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	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
14	1000	TYKW	5 S	2238.0	2239.6	5.0	24.0	9.0		
	410	PALE	4 S/F	2238.8	2239.1	16.0	16.0			
	4995	PALE	4 S/F	2254.8	2255.1	11.7	26.0			
	15400	PALE	4 S/F	2254.8	2255.6	13.3	66.0			
	8800	PALE	4 S/F	2254.8	2256.3	13.3	50.0			
	2000	TYKW	5 S	2327.0	2328.0	30.0	3.0	1.5		
	3750	TYKW	21 GRF	2327.0	2333.0	50.0	7.0	3.0		
	9400	TYKW	20 GRF	2330.0	2335.0	40.0	4.0	2.0		
	2930	VORO	3 S	2344.0	2345.0	2.0	30.0			
	606	LEAR	8 S	2351.3	2351.6	.5	10.0			
	410	LEAR	8 S	2351.5	2351.6	.1	71.0			
	245	LEAR	8 S	2351.6	2351.6	.2	30.0			
	2840	PEKG	5 S	2355.0	2356.4	5.0	26.0	6.3		
	2930	VORO	3 S	2355.0	2357.0	3.0	30.0			
	9395	PEKG	5 S	2356.6	2356.6	4.0	28.0	7.3		
15	208	VORO	44 NS	0000.0E		240.0D		10.0		
	260	ONDR	44 NS	0818.0E		327.0D	4.0			
	245	LEAR	43 NS	2150.0	0805.3	756.0	110.0			
	9395	PEKG	1 S	0004.0	0005.3	3.0	9.1	2.4		
	2840	PEKG	5 S	0004.0	0005.3	3.0	11.0	4.8		
	1000	TYKW	5 S	0005.0	0005.3	1.0	1.5	.5		
	3750	TYKW	5 S	0005.0	0005.3	1.0	3.5	1.5		
	1000	TYKW	5 S	0020.3	0020.7	1.0	20.0	5.0		
	1000	TYKW		0105.5	0105.8		94.0			
	1000	TYKW	45 C	0105.5	0106.3	2.0	94.0	10.0		
	2000	TYKW	5 S	0105.8	0106.2	1.0	1.5	.5		
	3750	TYKW	5 S	0106.0	0111.0	20.0	1.5	.7		
	1000	TYKW	45 C	0108.0	0108.8	2.5	123.0	23.0		
	2000	TYKW	5 S	0134.0	0135.0	2.0	57.0	16.0		
	2840	PEKG	5 S	0134.0	0135.2	2.0	124.0	22.0		
	3750	TYKW	21 GRF	0134.0	0220.0	250.0	7.5	4.0		
	9400	TYKW	21 GRF	0134.0	0240.0	160.0	6.0	3.0		
	3750	TYKW	45 C	0134.5	0135.1	2.5	103.0	14.0		
	1000	TYKW	45 C	0134.5	0135.2	2.5	32.0	5.0		
	9400	TYKW	45 C	0134.5	0135.4	20.0	35.0	9.0		
	17000	NOBE	20 GRF	0134.7	0143.3	18.0	12.0			0
	9395	PEKG	5 S	0135.0	0135.4	2.0	29.0	12.0		
	2000	TYKW	30 PBI	0136.0		13.0	4.0	2.0		
	2840	PEKG	29 PBI	0136.0	0141.0	15.0D	9.6			
	1000	TYKW	30 PBI	0137.0		7.0	1.0	.5		
	3750	TYKW	30 PBI	0137.0		16.0	6.0	3.0		
	3750	TYKW	5 S	0137.0	0141.5	10.0	2.0	1.0		
	9395	PEKG	29 PBI	0137.0	0143.0	18.0	13.0	9.0		
	1000	TYKW	45 C	0138.0	0138.8	5.0	4.0	.7		
	2000	TYKW	5 S	0139.0	0141.0	4.0	3.0	1.5		
	2000	TYKW	21 GRF	0157.0	0220.0	190.0	4.0	2.0		
	1000	TYKW	21 GRF	0157.0	0228.0	120.0	3.0	1.0		
	1000	TYKW	8 S	0157.6	0157.7	.2	11.0	3.0		
	3750	TYKW	5 S	0200.0	0201.2	5.0	3.0	1.0		
	2000	TYKW	5 S	0200.0	0201.3	5.0	2.0	.7		
	2840	PEKG	20 GRF	0212.0	0217.0	10.0	3.0			
	9395	PEKG	45 C	0215.0	0219.1	11.0	17.0	9.1		
	1000	TYKW	42 SER	0253.0	0253.3	3.0	25.0	2.0		
	9395	PEKG	21 GRF	0302.0	0308.6	32.0	17.0	3.8		
	2000	TYKW	45 C	0302.4	0302.7	2.5	3.0	1.0		
	9400	TYKW	45 C	0302.4	0303.7	1.6D	20.0	5.0D		
	3750	TYKW	45 C	0303.0E	0303.7	4.0D	9.0	2.0D		
	1000	TYKW	45 C	0303.0E	0305.5	3.5D	172.0	30.0D		
	3750	TYKW	21 GRF	0303.0E	0320.0	50.0D	5.0	2.5D		
	1000	TYKW	45 C	0306.7	0307.0	1.0	10.0	2.0		
	2000	TYKW	20 GRF	0308.0	0308.7	45.0	2.0	.7		
	3750	TYKW	5 S	0308.0	0308.7	5.0	4.0	1.0		
	2840	PEKG	5 S	0308.0	0308.7	19.0	5.3	2.2		
	9400	TYKW	21 GRF	0308.0	0315.0	35.0	4.0	2.0		
	9400	TYKW	5 S	0308.3	0308.6	1.0	4.0	1.5		
	9395	PEKG	2 S/F	0415.0	0416.2	3.0	8.1	2.1		
	9395	PEKG	2 S/F	0425.0	0427.6	4.0	8.5	2.8		
	2840	PEKG	1 S	0426.0	0427.3	4.0	8.8	1.7		
	3750	TYKW	5 S	0426.0	0427.4	2.0	12.0	3.5		
	2000	TYKW	5 S	0427.0	0427.5	2.0	3.0	1.0		
	3750	TYKW	29 PBI	0428.0		5.0	2.0	1.0		
	1000	TYKW	5 S	0529.7	0529.9	.5	4.0	1.0		
	1000	TYKW	45 C	0617.0	0617.2	1.0	6.0	1.0		
	1000	TYKW	45 C	0619.0	0619.2	1.0	6.0	1.5		
	204	IZMI	41 F	0744.0	0749.7	17.0	300.0			
	6100	KISV	4 S/F	0745.0	0749.7	7.0	23.0			
	5200	BERN	3 S	0746.5	0749.5	12.0	46.0			ONLY PAPER REC
	2950	GORK	3 S	0747.3	0749.6	3.2	36.0	18.0		
	2950	GORK		0747.3	0750.7		7.6			
	200	GORK	41 F	0747.4	0749.7	11.0	540.0			
	200	GORK		0747.4	0757.2		50.0			
	3200	BERN	3 S	0747.5	0749.5	12.0	38.0			ONLY PAPER REC
	3000	POTS	3 S	0748.0	0749.5	4.0	33.0			
	9100	GORK	3 S	0748.0	0749.7	2.1	24.0			
	1470	POTS	3 S	0748.0	0749.8	4.0	16.0			
	9500	POTS	3 S	0748.0	0749.8	4.0	17.0			
	4995	MANI	3 S	0748.3	0749.9	2.0	18.0	6.0		
	100	GORK	8 S	0749.0	0749.2	.3	30.0			
	950	GORK	1 S	0749.0	0749.7	1.2	15.6			
	2695	MANI	3 S	0749.0	0750.0	2.5	36.0	12.0		

SOLAR RADIO EMISSION
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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
15	8800	MANI	3 S	0749.0	0750.0	1.5	24.2	8.1		
	9100	GORK	29 PBI	0750.0	0750.0	16.2	9.0			
	430	KRAK	5 S	0756.0	0802.9	6.9U	110.0	41.0		
	6100	KISV	3 S	0756.6	0757.3	3.5	4.0			
	810	KRAK	8 S	0914.7	0914.7	.2	26.0			
	2950	GORK	1 S	0917.2	0918.0	6.0	4.8	2.4		
	9500	POTS	1 S	0917.5	0917.8	1.1	10.0			
	3000	POTS	1 S	0917.5	0917.8	.7	5.0			
	9100	GORK	1 S	0917.5	0917.9	2.0	14.0	7.0		
	6100	KISV	2 S/F	0917.5	0917.9	1.5	8.0			
	430	KRAK	42 SER	0917.7	0917.8	4.2	170.0			
	430	KRAK		0917.7	0919.2		304.0			
	430	KRAK	8 S	0935.4	0935.4	.2	11.0			
	536	ONDR	8 S	0946.0	0946.5	.5	22.0			
	430	KRAK	8 S	1007.3	1007.3	.2	15.0			
	2950	GORK	1 S	1021.0	1022.5	3.8	4.3	2.1		
	810	KRAK	8 S	1040.7	1040.7	.2	16.0			
	930	BORD	41 F	1041.0	1041.0	.2	38.0	1.0		
	430	KRAK	42 SER	1041.2	1041.7	154.0	86.0			
	430	KRAK		1041.2	1044.2		120.0			
	430	KRAK		1041.2	1131.8		170.0			
	810	KRAK	8 S	1100.5	1100.5	.2	65.0			
	930	BORD	41 F	1100.7	1102.0	1.6	30.0	2.0		
	536	ONDR	8 S	1137.5	1137.5	.5	45.0			
	810	KRAK	8 S	1147.5	1147.5	.1	33.0			
	930	BORD	41 F	1147.7	1149.3	1.6U	56.0	1.0		
	810	KRAK	8 S	1149.3	1149.3	.2	43.0			
	930	BORD	41 F	1200.3	1200.7	.7	26.0	2.0		
	260	ONDR	8 S	1206.0	1207.0	2.0	219.0D			
	234	POTS	4 S/F	1206.5	1206.6	.3	1700.0	85.0		III
	228	HARS	45 C	1215.0	1219.0	5.0	180.0	25.0		
	536	ONDR	8 S	1226.0	1226.0	.5	117.0			
	430	KRAK	45 C	1254.0	1255.8	5.6	420.0	62.0		
	810	KRAK	41 F	1254.8	1257.8	3.8	68.0			
	113	POTS	41 F	1308.3	1315.0	12.0	1500.0	50.0		III
	260	ONDR	46 C	1309.5	1318.0	10.0	211.0	14.0		
	1470	POTS	22 GRF	1310.0	1318.0	13.0	10.0			
	3200	BERN	3 S	1312.0	1316.0	8.0	14.0			ONLY PAPER REC
	5200	BERN	4 S/F	1312.0	1318.0	8.0	25.0			ONLY PAPER REC
	3000	POTS	22 GRF	1313.0	1316.0	11.0	16.0			
	9500	POTS	20 GRF	1313.5	1318.0	9.5	10.0			
	2800	OTTA	4 S/F	1314.0	1316.0	6.0	10.6	6.0		
	536	ONDR	46 C	1314.0	1317.5	5.5	14.0			
	7000	SAOP	20 GRF	1314.4		12.0	20.0	10.0		21R
	9400	HUAN	20 GRF	1314.6	1318.5	22.2	12.1	4.6		R
	930	BORD	46 C	1317.4	1318.1	1.4	61.0	4.0		
	234	POTS	4 S/F	1317.5	1319.0	1.7	400.0	8.0		III
	1470	POTS	42 SER	1420.0	1423.0	13.0	106.0			
	3200	BERN	4 S/F	1420.5	1422.0	14.0	216.0			ONLY PAPER REC
	2800	OTTA	4 S/F	1421.0	1422.3	15.0	297.0	30.0		
	3000	POTS	4 S/F	1421.0	1422.3	13.0	590.0			
	930	BORD	45 C	1421.0	1423.0	15.0	94.0	13.0		
	8800	ATHN	4 S/F	1421.1	1422.3	5.0	139.0			
	7000	SAOP	3 S	1421.4	1422.2	3.5	268.0	134.0		9L
	5200	BERN	4 S/F	1421.5	1422.0	12.0	288.0			
	9500	POTS	4 S/F	1421.5	1422.1	5.5	118.0			
	9400	HUAN	4 S/F	1421.5	1422.1	2.5	156.9	69.0		0
	113	POTS	41 F	1422.0	1424.0	18.0	4200.0	70.0		III
	234	POTS	41 F	1423.6	1424.0	10.0	6000.0	90.0		III
	9400	HUAN	29 PBI	1424.0	1424.0	33.2	17.2	5.7		0
	7000	SAOP	29 PBI	1424.9		7.8	12.0	6.0		
	9400	HUAN	21 GRF	1518.6	1532.2	35.7	6.0	2.5		0
	7000	SAOP	20 GRF	1527.3	1531.1	11.2	20.0	10.0		21R
	9400	HUAN	1 S	1527.5	1527.9	.9	6.9	4.0		0
	2800	OTTA	3 S	1530.0	1531.0	9.0	11.2	3.6		
	9400	HUAN	1 S	1530.3	1531.2	1.2	5.2	4.3		0
	7000	SAOP	20 GRF	1636.5	1637.9	15.3	17.0	8.0		26R
	2800	OTTA	1 S	1637.2	1638.0	3.0	9.2	4.0		
	9400	HUAN	23 GRF	1819.8	1853.3	50.9	10.3	3.8		0
	7000	SAOP	28 PRE	1824.9		4.4	5.0	2.0		
	15400	PALE	4 S/F	1829.1	1831.3	4.0	33.0			
	9400	HUAN	4 S/F	1829.3	1829.8	2.6	12.1	10.3		R
	9400	HUAN		1829.3	1831.2		24.1			R
	4995	PALE	4 S/F	1829.3	1831.3	2.5	32.0			
	7000	SAOP	45 C	1829.4	1831.4	5.2	36.0	18.0		25R
	2695	PALE	8 S	1829.6	1829.8	1.9	24.0			
	8800	PALE	4 S/F	1829.6	1831.3	2.4	41.0			
	2800	OTTA	4 S/F	1829.7	1830.0	3.5	17.2	5.8		
	2800	OTTA	1 S	1852.0	1853.7	4.0	6.0	3.0		
	245	SGMR	47 GB	2032.5	2033.3	1.6	660.0			
	9400	HUAN	3 S	2125.2	2125.8	2.9	37.9	13.6		R
	2695	PENT	3 S	2125.2	2126.1	2.8	10.6	5.0		
	8800	PALE	8 S	2125.6	2125.8	.7	40.0			
	15400	PALE	8 S	2125.6	2125.8	.5	30.0			
	4995	PALE	8 S	2125.6	2125.8	.7	30.0			
	2695	PALE	8 S	2125.8	2126.1	2.0	13.0			
	3750	TYKW	21 GRF	2320.0	2340.0	160.0	4.0	2.0		
	9400	TYKW	21 GRF	2340.0	2349.0	100.0	12.0	3.0		
	606	LEAR	8 S	2342.0	2342.8	2.0	33.0			
	606	PALE	8 S	2342.1	2342.8	1.5	54.0			
	3750	TYKW	5 S	2343.0	2343.6	1.5	1.5	.5		

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
16	245	LEAR	43 NS	2150.0	2327.1	757.0	130.0			
	3750	TYKW	20 GRF	0020.0	0047.0	60.0	4.0	2.0		
	100	HIRA	42 SER	0037.9	0042.0	5.2	625.0			
	9400	TYKW	20 GRF	0039.0	0049.0	35.0	6.0	3.0		
	1000	TYKW	45 C	0040.5	0041.3	1.5	4.0	1.0		
	2000	TYKW	5 S	0041.0	0041.3	1.0	2.0	.5		
	245	LEAR	8 S	0041.8	0042.6	1.2	65.0			
	3750	TYKW	5 S	0219.0	0220.4	3.0	5.0	1.5		
	3750	TYKW	29 PBI	0222.0		12.0	2.0	1.0		
	3750	TYKW	20 GRF	0315.0	0344.0	55.0	7.0	3.0		
	9400	TYKW	20 GRF	0325.0	0347.0	50.0	4.0	2.0		
	1000	TYKW	5 S	0343.0	0343.6U	3.0	2.5	1.0		
	2000	TYKW	20 GRF	0343.0	0343.7	30.0	3.0	1.0		
	245	LEAR	8 S	0705.5	0705.6	.3	48.0			
	410	LEAR	8 S	0705.6	0705.6	.2	02.0			
	606	LEAR	8 S	0705.6	0705.6	.2	09.0			
	245	LEAR	8 S	0750.1	0750.1	.2	73.0			
	606	LEAR	8 S	0750.1	0750.1	.2	20.0			
	260	ONDR	8 S	0805.0	0805.0	.5	44.0			
	245	LEAR	8 S	0814.5	0814.6	.3	72.0			
	606	LEAR	8 S	0814.6	0814.6	.2	13.0			
	430	KRAK	8 S	1000.7	1000.7	.2	11.0			
	260	ONDR	42 SER	1030.0	1031.0	5.0	30.0			
	8800	ATHN	8 S	1219.8	1220.1	1.3	70.0			
	7000	SAOP	F	1224.2						2
	7000	SAOP	4 S/F	1224.2	1225.3	2.4	22.0	11.0		0
	9400	HUAN	2 S/F	1224.7	1225.3	1.7	13.0	6.1		0
	9500	POTS	3 S	1225.0	1225.3	1.5	11.0			
	7000	SAOP	29 PBI	1226.6		10.8	5.0	2.0		
	260	ONDR	40 F	1239.5	1240.5	4.0	20.0	13.0		
	430	KRAK	41 F	1246.5	1247.3	6.0	41.0			
	808	ONDR	46 C	1246.5	1251.0	9.5	20.0	56.0		
	810	KRAK	45 C	1246.7	1252.6	12.2	490.0	60.0		
	3000	POTS	29 PBI	1247.0	1247.5	28.0	35.0			
	2650	DWIN	2 S/F	1247.0	1248.0	5.0	30.0	15.0		
	9500	POTS	29 PBI	1247.0	1248.0	38.0	19.0			
	7000	SAOP	45 C	1247.0	1248.2	4.8	43.0	21.0		6R
	930	BORD	45 C	1247.0	1250.8	8.0	380.0	12.0		
	1470	POTS	4 S/F	1247.3	1248.0	5.2	14.0			
	3200	BERN	4 S/F	1247.5	1247.8	6.0	38.0			ONLY PAPER REC
	5200	BERN	4 S/F	1247.5	1247.8	6.0	51.0			ONLY PAPER REC
	9400	HUAN	4 S/F	1247.6	1248.3	4.1	19.4	12.2		R
	9400	HUAN		1247.6	1250.3		17.8			R
	536	ONDR	47 GB	1249.0	1252.0	11.0	110.0	87.0		
	606	SGMR	8 S	1250.1	1252.1	9.2	400.0			
	9400	HUAN	29 PBI	1251.7	1251.7	32.5	9.7	3.0		0
	7000	SAOP	29 PBI	1251.9		5.0	13.0	6.0		
	430	KRAK	41 F	1304.3	1304.5	2.5	26.0			
	260	ONDR	8 S	1341.5	1341.5	.7	15.0			
	536	ONDR	8 S	1341.5	1341.5	.5	104.0			
	430	KRAK	8 S	1347.4	1347.5	.3	19.0			
	9400	HUAN	1 S	1358.4	1359.0	1.3	6.5	3.2		0
	930	BORD	8 S	1524.2	1524.2	.2	35.0	2.0		
	9400	HUAN	20 GRF	1617.6	1626.1	29.0	4.9	1.7		0
	2800	OTTA	4 S/F	1842.0	1843.0	2.5	11.8	4.0		
	2695	PENT	1 S	2010.0	2011.0	1.5	2.4	1.2		
	410	PALE	8 S	2103.1	2103.3	.2	88.0			
	245	PALE	47 GB	2127.5	2127.6	2.1	200.0			
	2695	PALE	8 S	2135.6	2135.8	1.0	27.0			
	1415	PALE	8 S	2135.6	2135.8	.4	21.0			
	8800	PALE	8 S	2135.6	2136.0	1.0	40.0			
	4995	PALE	8 S	2135.6	2136.6	1.0	26.0			
	245	LEAR	8 S	2218.5	2218.6	.3	49.0			
	410	LEAR	8 S	2218.5	2218.6	.3	05.0			
	606	LEAR	8 S	2218.5	2218.6	.3	09.0			
	100	HIRA	42 SER	2253.2	2253.6	8.0	620.0			
	200	HIRA	42 SER	2254.1	2254.4	2.3	78.0			0
	3750	TYKW	5 S	2323.5	2324.0	5.0	2.0	1.0		
17	127	TORN	43 NS	0725.0		405.0D		4.0		V1,DISTURBED
	260	ONDR	44 NS	1110.0E		164.0D	8.0			
	536	ONDR	43 NS	1330.0		24.0D	52.0U			
	245	PALE	43 NS	1708.0	1719.0	629.0	170.0			
	200	HIRA	44 NS	2116.0E	0100.0	610.0D	10.0	5.0		ML
	410	LEAR	43 NS	2150.0	0501.3	758.0	61.0			
	245	LEAR	43 NS	2150.0	2353.8	758.0	160.0			
	500	HIRA	45 C	0023.0	0023.3	.4	35.0	14.0		0
	1000	TYKW	5 S	0023.0	0023.7	3.5	6.0	2.0		
	2000	TYKW	5 S	0023.0	0023.7	1.5U	3.0	1.0		
	100	HIRA	46 C	0023.1	0023.7	1.7	615.0	105.0		
	200	HIRA	8 S	0023.3	0023.5	.3	230.0			0
	9400	TYKW	5 S	0110.0	0110.6	1.0	8.0	2.0		
	9395	PEKG	1 S	0126.0	0130.4	9.0	4.8	2.7		
	3750	TYKW	21 GRF	0154.0	0159.0	60.0	2.0	1.0U		
	9400	TYKW	5 S	0155.0	0158.0	25.0	4.0	2.0		
	3750	TYKW	8 S	0157.5	0157.6	.3	2.0	.5		
	3750	TYKW	20 GRF	0315.0	0330.0	50.0	2.0	1.0		
	2000	TYKW	20 GRF	0320.0	0330.0	45.0	1.0	.5		
	9395	PEKG		0328.0		49.0				
	9400	TYKW	45 C	0328.0	0334.0	8.0	8.0	4.0		
	500	HIRA	45 C	0328.3	0328.6	.9	57.0	30.0		ML

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	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	POLARIZATION OR REMARKS
17	9400	TYKW	29 PBI	0336.0		15.0	4.0	2.0		
	2840	PEKG	5 S	0339.0	0343.8	14.0	5.0	2.3		
	9400	TYKW	5 S	0410.0	0410.6	4.0	4.0	1.5		
	2840	PEKG	1 S	0423.0	0425.0	5.0	2.0			
	9395	PEKG	3 S	0425.0	0427.0	15.0	16.0	3.4		
	3750	TYKW	5 S	0426.5	0427.1	1.5	5.0	2.0		
	9400	TYKW	5 S	0426.5	0427.1	1.5	20.0	6.0		
	17000	NOBE	1 S	0426.7	0427.0	1.0	21.0			O
	3750	TYKW	29 PBI	0428.0		25.0	2.0	1.0		
	9400	TYKW	30 PBI	0428.0		25.0	4.0	1.5		
	9400	TYKW	5 S	0444.0	0444.3	1.0	5.0	1.5		
	9400	TYKW	20 GRF	0458.0U	0512.0U	45.0U	4.0U	1.5U		INTERFERENCE
	3750	TYKW	20 GRF	0500.0	0514.0	45.0	3.0	1.5		
	2000	TYKW	20 GRF	0506.0	0507.0	30.0	3.0	1.0		
	9395	PEKG	20 GRF	0506.0	0510.6	17.0	6.7	3.5		
	2840	PEKG	20 GRF	0506.0	0512.0	37.0	5.0	2.1		
	100	HIRA	41 F	0506.7	0508.4	6.0	210.0			
	113	POTS	8 S	0731.2	0731.3	.2	450.0	150.0		III
	9395	PEKG	1 S	0736.0	0736.7	3.0	8.6	1.9		
	3100	CRIM	26 FAL	0736.0	0935.0	119.0	7.0	2.0		
	536	ONDR	20 GRF	0815.0	0821.0	13.0	15.0	13.0		
	430	KRAK	8 S	0829.8	0829.8	.2	15.0			
	204	IZMI	5 S	0830.7	0830.7	.6	420.0	270.0		
	33	UPIC	4 S/F	0830.7	0830.7	.6				
	234	POTS	4 S/F	0830.8	0830.9	.4	500.0	25.0		III
	113	POTS	4 S/F	0830.8	0830.9	.6	3200.0	600.0		III
	29	UPIC	4 S/F	0830.8	0830.9	.6				
	260	ONDR	8 S	0831.0	0831.0	1.0	125.0			
	536	ONDR	20 GRF	0845.0	0848.0	9.0				
	536	ONDR	20 GRF	0901.0	0904.5	7.5	98.0	8.0		
	113	POTS	42 SER	0912.3	0912.8	5.0	120.0	2.0		III
	204	IZMI	41 F	0912.3	0916.0	5.0	275.0			
	260	ONDR	8 S	0915.0	0916.0	3.7	81.0			
	430	KRAK	8 S	0915.4	0915.4	.2	9.0			
	234	POTS	4 S/F	0916.3	0916.5	.5	200.0	50.0		III
	6100	KISV	2 S/F	0921.3	0922.2	5.0	7.0			
	9500	POTS	1 S	0921.5	0922.2	3.0	8.0			
	9100	GORK	22 GRF	0921.5	0922.2	15.3	13.0			
	430	KRAK	8 S	0928.5	0928.6	.3	230.0			
	260	ONDR	8 S	0929.0	0929.0	1.0	195.0			
	430	KRAK	8 S	0955.2	0955.2	.3	28.0			
	536	ONDR	20 GRF	1002.5	1012.0	17.0	14.0	14.0		
	113	POTS	4 S/F	1014.7	1015.4	1.5	420.0	14.0		III
	204	IZMI	41 F	1015.0	1015.8	1.2	750.0			
	430	KRAK	8 S	1038.2	1038.2	.2	11.0			
	260	ONDR	8 S	1038.5	1038.5	.5	172.0			
	536	ONDR	23 GRF	1050.0	1100.0	10.0U	8.0	8.0		
	6100	KISV	46 C	1051.0	1053.3	7.0	11.0			
	430	KRAK	8 S	1109.2	1109.2	.2	7.0			
	930	BORD	41 F	1137.0	1137.2	.7	42.0	3.0		
	810	KRAK	42 SER	1138.0	1155.4	21.5	10.0			
	650	GORK	4 S/F	1141.3	1142.9	2.2	7.0	3.0		
	3100	CRIM	3 S	1150.0	1154.8	9.0	55.0	18.0		
	260	ONDR	40 F	1150.0	1155.0	6.5	32.0	5.0		
	9400	HUAN	21 GRF	1150.8	1157.8	22.2	6.7	4.1		
	3000	POTS	4 S/F	1151.0	1155.5	6.5	62.0			
	9500	POTS	28 PRE	1151.3	1155.5	6.7	19.0			
	5200	BERN	3 S	1151.5	1155.1	8.0	76.0			
	3200	BERN	3 S	1151.5	1155.1	8.0	77.0			
	9400	HUAN	2 S/F	1151.8	1152.4	2.6	11.7	6.9		
	1470	POTS	3 S	1152.0	1155.4	7.0	15.0			
	2950	GORK	3 S	1152.3	1155.3	5.2	60.0	30.0		
	3000	IZMI	5 S	1153.0	1155.5	4.0	46.0	25.0		
	2650	DWIN	3 S	1153.0	1156.0	8.0	45.0	20.0		
	430	KRAK	8 S	1153.1	1153.2	.2	27.0			
	113	POTS	4 S/F	1153.5	1155.0	8.6	160.0	25.0		III
	127	TORN	45 C	1153.5	1155.5	4.0	190.0	60.0		
	33	UPIC	46 C	1153.8	1153.9	4.3				
	29	UPIC	46 C	1154.0	1155.0	3.6U				
	204	IZMI	41 F	1154.0	1155.2	2.8	200.0			
	9400	HUAN	1 S	1155.1	1155.6	1.8	18.4	8.4		
	810	KRAK	42 SER	1237.0	1238.2	8.6	54.0			
	810	KRAK		1237.0	1242.7		210.0			
	930	BORD	42 SER	1237.0	1243.2	9.0	470.0	2.0		
	113	POTS	4 S/F	1242.7	1243.2	.8	350.0	60.0		III
	1470	POTS	8 S	1242.8	1243.3	.9	26.0			
	430	KRAK	1 S	1245.2	1245.4	1.5	7.0	3.0		
	808	ONDR	8 S	1252.5	1253.0	2.5	122.0			
	930	BORD	41 F	1308.0	1308.4	1.0	30.0	2.0		
	930	BORD	41 F	1325.0	1325.1	.2	38.0	2.0		
	7000	SAOP	40 F	1642.0			23.0	11.0		
	9400	HUAN	20 GRF	1737.1	1800.8	33.9	5.0	3.3		O
	100	HIRA	42 SER	2135.0		30.0	970.0D			
	200	HIRA	42 SER	2136.4	2150.0	24.0	1800.0			WL
	2695	PENT	46F C	2149.0	2149.3	3.0	21.4	5.8		
	1000	TYKW	45 C	2149.0	2150.7	4.0	133.0U	20.0U		
	9400	HUAN	1 S	2150.6	2151.5	1.6	10.0	4.4		R
	2000	TYKW	45 C	2158.0	2158.6	3.0	3.0U	1.0U		
	2695	PENT	2 S/F	2158.3	2158.5	1.7	3.4			
	1000	TYKW	42 SER	2158.3	2200.0	2.5	95.0	4.0		
	3750	TYKW	5 S	2211.0	2214.0	7.0	4.0	1.5		

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
17	2695	PENT	1 S	2212.0	2214.0	4.0	2.4	1.2		
	1000	TYKW	8 S	2213.8	2213.9	.2	7.0	2.0		
	1000	TYKW	45 C	2218.4	2218.7	.6	60.0	15.0		
	9400	TYKW	5 S	2241.3	2241.7	1.0	9.0	2.5		
	1000	TYKW	45 C	2301.5	2303.1	4.0	27.0	5.0		
	3750	TYKW	45 C	2302.0	2302.7	6.0	23.0	5.0		
	2000	TYKW	45 C	2302.0	2302.7	6.0	8.0	2.0		
	9400	TYKW	45 C	2302.5	2303.1	6.0	20.0	5.0		
	2695	PENT	3 S	2312.2	2312.7	1.8	14.8	7.0		
	245	LEAR	8 S	2314.5	2314.8	.6	110.0			
	606	PALE	47 GB	2314.6	2314.8	.7	970.0			
	1000	TYKW	45 C	2314.8	2315.0	1.0	130.0	10.0		
	606	LEAR	47 GB	2314.8	2315.0	1.0	870.0			
	410	LEAR	8 S	2315.1	2315.6	.7	38.0			
	2930	VORO	3 S	2356.0	2357.0	2.0	17.0			
18	200	GORK	44 NS	0536.0E		361.0D		10.0		
	100	GORK	44 NS	0536.0E		361.0D		5.0		
	127	TORN	44 NS	0630.0E	0908.0	510.0D	12200.0	8.0		V2
	260	ONDR	44 NS	0757.0E		367.0D	14.0U			
	245	SGMR	43 NS	1202.0	2002.8	532.0D	110.0			
	200	HIRA	44 NS	2117.0E	0554.0	610.0D	25.0	10.0		ML
	245	LEAR	43 NS	2150.0	0044.5	758.0	410.0			
	1000	TYKW	45 C	0026.0	0029.2	5.0	15.0	1.5		
	3750	TYKW	45 C	0027.0	0029.8	8.0	5.0	1.5		
	410	LEAR	8 S	0027.8	0028.3	1.3	23.0			
	245	LEAR	8 S	0028.0	0028.1	.6	18.0			
	606	LEAR	8 S	0028.0	0028.5	1.3	160.0			
	2000	TYKW	45 C	0028.0	0028.7	3.5	4.0	1.0		
	1415	LEAR	8 S	0028.5	0029.1	.8	13.0			
	3750	TYKW	5 S	0042.0	0044.0	8.0	2.0	1.0		
	3750	TYKW	5 S	0056.0	0058.0	14.0	2.0	1.0		
	2840	PEKG	5 S	0110.0	0111.3	7.0	19.0	2.4		
	9395	PEKG	5 S	0110.0	0111.3	12.0	16.0	4.0		
	500	HIRA	41 F	0110.5	0111.1	6.6	220.0			SR
	2000	TYKW	45 C	0110.5	0111.3	4.5	9.0	2.0		
	3750	TYKW	45 C	0110.5	0111.3	4.5	29.0	4.0		
	1000	TYKW	45 C	0110.5	0111.5	4.5	26.0	3.0		
	410	PALE	47 GB	0110.6	0111.3	5.5	700.0			
	2695	PALE	8 S	0110.8	0111.1	.3	17.0			
	410	LEAR	47 GB	0110.8	0111.3	5.3	440.0			
	100	HIRA	42 SER	0110.9		65.0	980.0D			
	4995	PALE	8 S	0111.0	0111.1	.3	23.0			
	2695	LEAR	47 GB	0111.0	0111.1	.1	13.0			
	4995	LEAR	47 GB	0111.0	0111.1	.3	23.0			
	245	PALE	8 S	0111.0	0111.3	.6	79.0			
	9400	TYKW	5 S	0111.0	0111.3	3.0	13.0	4.0		
	606	LEAR	47 GB	0111.0	0111.6	1.0	57.0			
	606	PALE	8 S	0111.0	0111.6	1.0	56.0			
	2930	VORO	3 S	0111.0	0112.0	2.0	17.0			
	8800	PALE	8 S	0111.1	0111.1	.2	24.0			
	8800	LEAR	47 GB	0111.1	0111.1	.0	19.0			
	245	LEAR	47 GB	0111.1	0111.3	.5	80.0			
	15400	LEAR	47 GB	0111.1	0111.6	.0	16.0			
	3750	TYKW	5 S	0115.0	0115.8	2.5	3.0	1.0		
	1000	TYKW	45 C	0115.0	0116.6	2.0	11.0	.7		
	2000	TYKW	5 S	0115.3	0115.8	2.0	3.0	1.5		
	606	LEAR	47 GB	0118.0	0119.6	4.1	770.0			
	606	PALE	47 GB	0118.0	0120.5	5.3	720.0			
	1000	TYKW	42 SER	0118.0	0120.6	4.5	17.0	2.0		
	2000	TYKW	42 SER	0118.0	0121.5	4.0	10.0	1.0		
	245	LEAR	4 S/F	0119.6	0119.6	80.8	43.0			
	1415	PALE	8 S	0119.6	0119.8	.2	31.0			
	3750	TYKW	45 C	0122.0	0123.4	6.0	18.0	6.0		
	2840	PEKG	5 S	0122.0	0123.4	7.0	24.0	5.7		
	9400	TYKW	45 C	0122.0	0123.5	10.0	29.0	10.0		
	2000	TYKW	45 C	0122.0	0125.0	7.0	89.0	11.0		
	9395	PEKG	21 GRF	0122.0	0129.2	49.0	9.0	5.1		
	17000	NOBE	20 GRF	0122.3	0127.8	12.0	13.0			O
	1000	TYKW	47 GB	0122.5	0127.6	6.5	4900.0	350.0		
	8800	LEAR	47 GB	0122.8	0123.1	2.8	30.0			
	8800	PALE	4 S/F	0122.8	0123.1	7.3	40.0			
	4995	PALE	8 S	0122.8	0123.3	1.5	21.0			
	15400	LEAR	47 GB	0122.8	0123.5	2.7	26.0			
	2695	PALE	4 S/F	0122.8	0124.8	2.8	200.0			
	2695	LEAR	47 GB	0122.8	0125.0	5.8	170.0			
	1415	LEAR	47 GB	0122.8	0125.1	5.8	1000.0			
	4995	LEAR	47 GB	0123.0	0123.3	2.1	19.0			
	9395	PEKG	3 S	0123.0	0123.4	6.0	20.0	11.0		
	2930	VORO	3 S	0123.0	0124.0	6.0	17.0			
	500	HIRA	42 SER	0123.0	0127.3	9.0	65.0			SL
	245	LEAR	47 GB	0123.0	0127.5	6.0	72.0			
	245	PALE	47 GB	0123.1	0123.6	4.7	64.0			
	15400	PALE	8 S	0123.1	0124.3	1.3U	23.0			
	606	LEAR	47 GB	0123.1	0127.5	8.7	1000.0			
	410	PALE	8 S	0126.8	0127.0	.8	170.0			
	3750	TYKW	30 PBI	0128.0		72.0	4.0	2.0		
	2000	TYKW	30 PBI	0129.0		70.0	2.0	1.0		
	9400	TYKW	29 PBI	0132.0		70.0	6.0	2.0		
	2000	TYKW	21 GRF	0142.0	0150.0	40.0	2.0	1.0		
	1000	TYKW	45 C	0145.0	0145.2	1.0	14.0	2.0		

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	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
18	245	LEAR	8 S	0146.8	0147.3	1.0	10.0			
	410	LEAR	8 S	0146.8	0147.5	1.0	10.0			
	1415	LEAR	8 S	0146.8	0147.6	1.2	22.0			
	606	LEAR	8 S	0147.0	0147.1	1.3	390.0			
	606	PALE	8 S	0147.0	0147.1	.5	370.0			
	1000	TYKW	42 SER	0147.0	0147.5	3.0	128.0	4.0		
	2695	LEAR	8 S	0147.1	0147.6	.7	11.0			
	2000	TYKW	5 S	0147.4	0147.6	.5	45.0	7.0		
	606	LEAR	8 S	0151.6	0151.8	.5	55.0			
	3750	TYKW	5 S	0152.0	0152.5	10.0	1.5	.5		
	9395	PEKG	20 GRF	0152.0	0203.0	33.0	6.0			
	2840	PEKG	21 GRF	0152.0	0209.0	49.0	3.4	2.4		
	1000	TYKW	45 C	0152.8	0153.2	1.5	7.0	2.0		
	2000	TYKW	45 C	0153.0	0153.6	1.5	6.0	2.0		
	1000	TYKW	45 C	0203.0	0203.4	.6	12.0	2.0		
	2840	PEKG	1 S	0215.0	0216.2	3.0	3.4	3.0		
	3750	TYKW	5 S	0215.7	0216.0	1.5	3.0	1.0		
	1000	TYKW	5 S	0248.0	0248.7	2.0	5.0	1.5		
	17000	NOBE	1 S	0303.0	0303.7	1.5	16.0			
	9395	PEKG	45 C	0303.0	0307.4	11.0	17.0	8.2		
	1000	TYKW	45 C	0303.5	0304.9	8.5	25.0	3.0		
	3750	TYKW	45 C	0303.5	0305.0	8.5U	23.0	6.0U		
	2000	TYKW	45 C	0303.5	0308.0U	8.5	11.0D	3.0D		
	1415	LEAR	4 S/F	0304.0	0307.1	6.8	10.0			
	2840	PEKG	45 C	0304.0E	0307.3	10.0D	21.0			
	2695	MANI	4 S/F	0304.0	0307.5	7.5	19.4	6.5		
	410	LEAR	47 GB	0304.1	0304.8	7.0	580.0			
	410	PALE	47 GB	0304.1	0304.8	6.2	710.0			
	606	PALE	4 S/F	0304.1	0305.0	6.5	64.0			
	1415	MANI	4 S/F	0304.2	0305.4	6.8	14.0	4.7		
	606	LEAR	47 GB	0304.3	0305.0	6.5	64.0			
	606	MANI	4 S/F	0304.3	0305.4	7.2	46.0	15.3		
	4995	MANI	4 S/F	0304.5	0305.2	4.5	49.8	16.6		
	4995	LEAR	47 GB	0304.6	0305.0	8.2	27.0			
	8800	LEAR	47 GB	0304.8	0305.0	7.0	21.0			
	2695	LEAR	47 GB	0304.8	0305.0	6.5	16.0			
	245	LEAR	47 GB	0304.8	0305.0	6.0	38.0			
	9400	TYKW	45 C	0307.0E	0307.3	7.0D	20.0	6.0D		
	15400	LEAR	4 S/F	0307.1	0307.3	5.2	16.0			
	2840	PEKG	45 C	0412.0	0414.6	6.0	78.0	31.0		
	3750	TYKW	45 C	0412.0	0414.6	7.0	122.0	33.0		
	9395	PEKG	45 C	0412.0	0414.6	6.0	142.0	52.0		
	9400	TYKW	45 C	0412.0	0414.6	7.0	170.0	50.0		
	8800	LEAR	4 S/F	0412.6	0414.6	5.0	210.0			
	2000	TYKW	45 C	0412.7	0414.6	6.3	90.0	23.0		
	4995	LEAR	4 S/F	0412.8	0414.5	4.8	100.0			
	17000	NOBE	7 C	0412.8	0414.6	5.1	116.0			R
	15400	LEAR	4 S/F	0412.8	0414.6	5.3	130.0			
	4995	MANI	4 S/F	0413.0	0414.8	5.0	234.1	78.0		
	8800	MANI	4 S/F	0413.0	0415.0	4.5	221.9	74.0		
	200	HIRA	46 C	0413.0	0415.8	9.0	305.0	37.0		WL
	1000	TYKW	47 GB	0413.0	0421.9	11.0	2380.0	100.0		
	2695	LEAR	4 S/F	0413.1	0414.6	3.9	100.0			
	1415	LEAR	4 S/F	0413.1	0415.6	3.4	130.0			
	2695	MANI	4 S/F	0413.2	0415.0	4.3	106.9	35.6		
	100	HIRA	42 SER	0413.5		24.0	990.0D			
	500	HIRA	45 C	0413.6	0414.3	2.6	60.0	35.0		SL
	606	LEAR	4 S/F	0413.8	0414.3	2.3	240.0			
	245	LEAR	4 S/F	0413.8	0416.3	2.7	200.0			
	35000	NAGO	5 S	0414.0	0414.0	6.0	20.0			
	410	LEAR	4 S/F	0414.1	0416.1	2.5	30.0			
	17000	NOBE	29 PBI	0417.9	0418.0	18.0	17.0			O
	2840	PEKG	29 PBI	0418.0		26.0	6.6	4.7		
	9395	PEKG	29 PBI	0418.0		29.0	15.0	8.2		
	1415	LEAR	4 S/F	0418.3	0419.1	5.8	460.0			
	2000	TYKW	30 PBI	0419.0		70.0	6.0	3.0		
	3750	TYKW	30 PBI	0419.0		80.0	8.0	4.5		
	9400	TYKW	30 PBI	0419.0		70.0	15.0	5.0		
	245	LEAR	4 S/F	0419.5	0420.1	3.6	30.0			
	606	LEAR	4 S/F	0419.8	0422.0	4.3	270.0			
	2000	TYKW	45 C	0420.3	0422.7	3.7	64.0	8.0		
	2695	LEAR	4 S/F	0420.8	0422.6	2.5	37.0			
	410	LEAR	8 S	0421.1	0422.3	1.9	20.0			
	3750	TYKW	45 C	0421.2	0422.7	2.5	9.0	2.0		
	245	LEAR	4 S/F	0448.8	0451.3	5.5	300.0			
	410	LEAR	8 S	0450.8	0451.1	1.3	28.0			
	2000	TYKW	5 S	0501.0	0501.6	1.0	7.0	1.5		
	1000	TYKW	8 S	0507.1	0507.2	.2	26.0	7.0		
	245	LEAR	8 S	0507.6	0508.1	1.7	28.0			
	2000	TYKW	42 SER	0508.0	0508.4	2.0	7.0	1.0		
	1000	TYKW	45 C	0508.0	0509.0	1.5	200.0	20.0		
	1415	LEAR	8 S	0508.3	0508.3	.5	16.0			
	1000	TYKW	45 C	0512.0	0512.3	.5	7.0	2.0U		
	1000	TYKW	42 SER	0519.3	0519.8	2.5	25.0	1.0		
	1000	TYKW	45 C	0523.9	0524.2	.5	19.0	5.0		
	9400	TYKW	8 S	0524.0	0524.1	.2	9.0	3.0		
	1000	TYKW	5 S	0553.3	0553.5	.5	1.5	.5		
	2840	PEKG	45 C	0600.0	0603.0	3.0U	19.0	5.9		
	2000	TYKW	45 C	0600.0	0603.0	5.0D	12.0D	4.0D		
	500	HIRA	46 C	0600.0	0604.0	7.0	1500.0	250.0		SR
	950	GORK	2 S/F	0600.5	0602.4	4.0	7.0			

SOLAR RADIO EMISSION
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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
18	606	LEAR	4 S/F	0600.5	0602.8	6.1	40.0			
	1415	MANI	4 S/F	0600.5	0603.0	4.5	10.9	3.6		
	2695	MANI	4 S/F	0600.5	0603.2	5.0	19.4	6.5		
	606	MANI	4 S/F	0600.5	0604.5	7.0	40.0	13.3		
	650	GORK	4 S/F	0600.6	0602.3	9.5	20.0			
	410	LEAR	47 GB	0600.6	0602.3	6.5	670.0			
	4995	LEAR	4 S/F	0600.6	0602.8	5.2	30.0			
	1415	LEAR	4 S/F	0600.6	0602.8	4.5	11.0			
	9100	GORK	1 S	0600.6	0603.0	5.6	21.0	10.0		
	2695	LEAR	4 S/F	0600.6	0603.0	5.2	19.0			
	245	LEAR	4 S/F	0600.6	0604.1	4.7	27.0			
	9395	PEKG	5 S	0601.0	0603.0	9.0	15.0	5.4		
	9400	TYKW	5 S	0601.0	0603.0	3.0D	23.0	8.0D		
	6100	KISV	4 S/F	0601.0	0602.4	6.0	23.0			
	17000	NOBE	20 GRF	0601.6	0603.7	6.0	12.0			0
	2950	GORK	1 S	0601.7	0603.0	3.8	16.0	8.0		
	8800	LEAR	4 S/F	0601.8	0603.0	6.3	13.0			
	4995	MANI	3 S	0602.0	0603.2	3.0	49.8	16.6		
	8800	MANI	3 S	0602.0	0603.3	3.0	22.2	7.4		
	15400	LEAR	4 S/F	0602.1	0604.3	3.9	10.0			
	1000	TYKW	5 S	0603.0E	0603.0U	3.0D	8.0D	3.0D		
	3750	TYKW	5 S	0603.0E	0603.0U	5.0D	26.0D	6.0D		
	100	GORK	8 S	0648.8	0648.9	1.0	70.0D			
	606	LEAR	8 S	0801.6	0801.6	.2	28.0			
	245	LEAR	8 S	0801.6	0801.6	.5	92.0			
	260	ONDR	46 C	0814.7	0816.0	5.3	125.0	21.0		
	9500	POTS	20 GRF	0821.0	0824.0	9.0	6.0			
	3000	POTS	20 GRF	0821.0	0827.0	12.0	5.0			
	1470	POTS	20 GRF	0821.0	0827.5	8.0	4.0			
	650	GORK	2 S/F	0824.7	0828.3	6.9	8.0	2.5		
	810	KRAK	4 S/F	0824.9	0828.2	4.6	20.0	3.0		
	200	GORK	46 C	0825.0	0826.5	5.5	45.0D			
	200	GORK		0825.0	0829.8		45.0D			
	204	IZMI	46 C	0825.1	0825.1	3.3	800.0	250.0		
	245	LEAR	4 S/F	0825.1	0825.3	3.2	330.0			
	410	LEAR	8 S	0825.1	0826.0	1.2	130.0			
	127	TORN	45 C	0825.1	0826.8	3.2	4800.0	1200.0		
	113	POTS	4 S/F	0825.2	0825.3	3.2	4200.0	300.0		III
	234	POTS	4 S/F	0825.2	0825.3	2.4	340.0	5.0		III
	430	KRAK	42 SER	0825.2	0825.4	2.5	150.0			
	29	UPIC	46 C	0825.2	0825.5	2.9				
	100	GORK	4 S/F	0825.2	0826.0U	3.0	100.0D			
	430	KRAK		0825.2	0826.2		350.0			
	2950	GORK	20 GRF	0825.4	0826.6	14.5	3.2	1.6		
	33	UPIC	46 C	0825.5	0826.7	2.8				
	950	GORK	2 S/F	0827.2	0828.4	1.8	9.0			
	260	ONDR	46 C	0907.0	0907.4	7.0	216.0U	10.0		
	536	ONDR	41 F	0907.0	0908.5	8.5	23.0	2.0		
	245	LEAR	47 GB	0907.3	0907.5	2.8	720.0			
	204	IZMI	4 S/F	0907.3	0907.5	1.3	420.0	150.0		
	410	LEAR	4 S/F	0907.3	0907.6	3.0	76.0			
	606	LEAR	8 S	0907.3	0908.0	1.7	20.0			
	234	POTS	4 S/F	0907.4	0907.6	1.5	1400.0	20.0		III
	113	POTS	4 S/F	0907.4	0908.4	1.6	700.0	45.0		III
	650	GORK	4 S/F	0907.5	0908.0	3.0	7.0	3.5		
	430	KRAK	8 S	0932.9	0932.9	.1	11.0			
	3100	CRIM	26 FAL	1013.0	1100.0	47.0	6.0	2.0		
	100	GORK	41 F	1030.4	1032.6	7.0	110.0D			
	100	GORK		1030.4	1036.8		70.0			
	6100	KISV		1051.0	1055.4		27.0			
	100	GORK	41 F	1100.6	1100.7	1.4	110.0D			
	100	GORK		1100.6	1101.5		110.0D			
	113	POTS	4 S/F	1101.4	1101.4	.6	1100.0	150.0		III
	536	ONDR	8 S	1101.5	1101.5	.5	41.0			
	9500	POTS	29 PBI	1132.0	1135.0	63.0	12.0			
	3000	POTS	3 S	1133.5	1135.0	4.5	15.0			
	3100	CRIM	1 S	1133.6	1134.5	4.0	11.0	3.0		
	810	KRAK	2 S/F	1133.8	1134.8	1.4	35.0	5.0		
	7000	SADP	20 GRF	1133.8	1135.1	34.2	19.0	9.0		17R
	260	ONDR	46 C	1133.8	1136.0	3.0	76.0	11.0		
	930	BORD	41 F	1134.0	1135.2	1.3	74.0	2.0		
	1470	POTS	40 F	1134.0	1135.8	2.5	5.0			
	2950	GORK	20 GRF	1134.2	1134.7	12.1	10.0	5.0		
	9100	GORK	22 GRF	1134.2	1135.0	15.8	14.0			
	9400	HUAN	1 S	1134.3	1135.2	2.7	14.0	7.6		R
	430	KRAK	8 S	1134.4	1134.7	.8	59.0			
	950	GORK	1 S	1134.5	1135.0	1.7	10.0			
	100	GORK	41 F	1134.5	1136.1	12.7	100.0D			
	100	GORK		1134.5	1145.5		100.0D			
	2650	DWIN	2 S/F	1135.0	1136.0	2.0	20.0	10.0		
	113	POTS	42 SER	1135.0	1136.1	9.5	250.0	3.0		III
	430	KRAK	8 S	1146.1	1146.1	.2	14.0			
	430	KRAK	8 S	1214.0	1214.2	.6	260.0			
	536	ONDR	40 F	1301.0	1305.5	6.5	91.0	2.0		
	430	KRAK	42 SER	1303.2	1305.5	3.1	460.0			
	7000	SADP	27 RF	1407.2		31.5	16.0	8.0		0
	9400	HUAN	20 GRF	1408.3	1423.2	36.3	10.5	6.2		R
	113	POTS	42 SER	1414.9	1422.3	18.0	800.0			III
	2800	OTTA	21 GRF	1416.0		120.0D	9.6			
	2800	OTTA	1 S	1431.0	1432.0	5.0	2.8	1.6		
	930	BORD	41 F	1436.7	1437.1	1.3	28.0	2.0		

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
18	430	KRAK	1 S	1452.9	1453.0	1.5	15.0	5.0		
	9400	HUAN	3 S	1512.5	1513.2	2.2	33.2	14.9		R
	7000	SAOP	3 S	1512.5	1513.3	2.1	42.0	21.0		
	2695	SGMR	4 S/F	1512.6	1513.1	2.5	18.0			
	8800	SGMR	4 S/F	1512.8	1513.1	3.2	34.0			
	4995	SGMR	4 S/F	1512.8	1513.3	3.3	27.0			
	2800	OTTA	3 S	1512.9	1513.3	2.0	10.0	5.0		
	7000	SAOP	29 PBI	1514.6		13.8	13.0	6.0		O
	9400	HUAN	29 PBI	1514.7	1514.7	18.6	5.2	2.7		R
	2800	OTTA	21 GRF	1630.0	1650.0	90.0	3.6	2.6		
	606	SGMR	4 S/F	1643.0	1644.0	2.6	20.0			
	410	SGMR	8 S	1643.1	1643.3	1.9	23.0			
	2800	OTTA	2 S/F	1643.5	1644.3	1.5	3.6			
	245	SGMR	8 S	1644.5	1644.6	1.3	13.0			
	2800	OTTA	2 S/F	1707.0	1707.7	2.0	5.2			
	2000	TYKW	21 GRF	2310.0	0000.0	120.0	2.0	1.0		
	1000	TYKW	21 GRF	2310.0U	0005.0U	150.0U	2.0U	1.0U		INTERFERENCE
	3750	TYKW	21 GRF	2310.0	0020.0	170.0	6.0	3.0		
	1000	TYKW	5 S	2312.0	2312.2	.6	2.0U	.7U		
	3750	TYKW	5 S	2329.5	2330.6	1.5	3.0	1.0		
	2000	TYKW	45 C	2329.5	2330.7	2.5	17.0	2.0		
	1415	PALE	8 S	2329.6	2329.8	1.2	31.0			
	1000	TYKW	45 C	2329.7	2329.9	1.3	6.0	2.0		
	1415	LEAR	8 S	2329.8	2330.0	.8	27.0			
	2695	LEAR	8 S	2329.8	2330.6	1.3	22.0			
	245	LEAR	8 S	2330.3	2330.5	.3	200.0			
	1000	TYKW	5 S	2334.0	2334.3	.5	5.0	2.0		
	1000	TYKW	45 C	2341.0	2349.1	12.0	440.0	5.0U		
	1415	PALE	4 S/F	2348.5	2349.5	3.3	150.0			
	2000	TYKW	45 C	2348.5	2349.9	2.5	21.0	2.0		
	1415	LEAR	8 S	2348.6	2349.5	1.9	119.0			
	1000	TYKW	5 S	2358.2	2358.5	.5	3.0	1.0		
19	208	VORO	44 NS	0000.0E		240.0D		16.0		
	200	GORK	44 NS	0538.0E		882.0D		10.0		
	127	TORN	43 NS	0650.0	1255.2	432.0D	80.0	8.0		V1
	260	ONDR	44 NS	0800.0E		359.0D	10.0			
	100	GORK	43 NS	0825.0		215.0D		5.0		
	245	LEAR	43 NS	2150.0	0818.1	759.0	560.0			
	1000	TYKW	5 S	0004.4	0004.6	.5	15.0	5.0		
	9400	TYKW	45 C	0140.0	0140.5	2.0	6.0	2.0		
	2930	VORO	45 C	0203.0	0204.0		10.0			
	2930	VORO		0203.0	0205.0		37.0			
	2930	VORO		0203.0	0207.0	6.0	10.0			
	3750	TYKW	28 PRE	0207.0	0215.0	18.0	2.0	1.5		
	9400	TYKW	28 PRE	0207.0	0215.0	20.0	4.0	2.0		
	2840	PEKG	3 S	0222.0	0230.2	11.0D	16.0			
	2000	TYKW	5 S	0225.0	0230.0	8.0	9.0	5.0		
	3750	TYKW	45 C	0225.0	0230.0	9.0	22.0	11.0		
	9400	TYKW	8 S	0225.8	0225.9	.2	105.0	25.0		
	1000	TYKW	45 C	0226.0	0229.5	16.0	22.0	7.0		
	2695	LEAR	4 S/F	0226.6	0229.6	7.4	13.0			
	4995	LEAR	4 S/F	0226.6	0230.0	7.4	20.0			
	8800	LEAR	4 S/F	0226.6	0230.0	7.4	19.0			
	606	LEAR	4 S/F	0226.6	0230.3	7.4	13.0			
	9400	TYKW	5 S	0227.0	0230.0	7.0	11.0	6.0		
	4995	PALE	4 S/F	0228.0	0229.6	2.5	19.0			
	9395	PEKG	20 GRF	0228.0	0230.2	24.0	6.7	4.2		
	208	VORO	46 C	0228.0	0232.0	60.0	48.0			
	208	VORO		0228.0	0237.0		43.0			
	208	VORO		0228.0	0240.0		52.0			
	2695	PALE	8 S	0228.8	0230.1	1.5	20.0			
	8800	PALE	8 S	0229.5	0231.6	2.2U	13.0			
	200	HIRA		0229.6	0231.6		38.0			WL
	200	HIRA	46 C	0229.6	0239.0	30.0	70.0	12.0		WL
	606	PALE	8 S	0230.1	0230.8	.9	18.0			
	2000	TYKW	30 PBI	0233.0		120.0	4.0	1.5		
	3750	TYKW	30 PBI	0234.0		140.0	6.0	3.0		
	9400	TYKW	30 PBI	0234.0		110.0	6.0	3.0		
	245	PALE	4 S/F	0236.0	0239.8	5.8	42.0			
	2000	TYKW	45 C	0237.0	0237.8	3.0	2.0	.5		
	245	LEAR	4 S/F	0238.0	0240.0	4.8	51.0			
	9400	TYKW	20 GRF	0240.0	0258.0	40.0	5.0	2.5		
	1000	TYKW	29 PBI	0242.0		7.0	2.0	1.0		
	1000	TYKW	5 S	0250.0	0252.0	8.0	2.0	1.0D		
	2000	TYKW	20 GRF	0250.0	0253.0U	30.0	4.0D	1.5D		
	3750	TYKW	20 GRF	0250.0	0254.0	30.0	4.0	1.5		
	9400	TYKW	5 S	0446.0	0446.6	2.5	6.0	2.0		
	245	LEAR	8 S	0537.5	0538.5	1.5	78.0			
	245	LEAR	8 S	0716.1	0716.3	.2	110.0			
	606	LEAR	8 S	0716.1	0716.3	.2	21.0			
	430	KRAK	8 S	0914.2	0914.4	.3	39.0			
	2950	GORK	20 GRF	1048.4	1048.9	12.8	4.6	2.3		
	930	BORD	8 S	1226.7	1226.7	.1	22.0	1.0		
	9400	HUAN	20 GRF	1238.2	1318.6	88.5	6.5	5.4		O
	430	KRAK	41 F	1252.7	1254.9	2.6	25.0			
	430	KRAK	8 S	1335.5	1335.5	.2	44.0			
	930	BORD	41 F	1510.5	1510.9	.5	205.0	2.0		
	2800	OTTA	260 FAL	1600.0	1640.0	40.0	-3.4			
	2800	OTTA	20 GRF	1725.0	1805.0	110.0	3.8	1.9		
20	200	HIRA	43 NS	0400.0	0633.0	204.0D	10.0	5.0		WL

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
20	200	GORK	44 NS	0547.0E		366.0D		5.0		
	127	TORN	43 NS	0646.0	0903.8	181.0	50.0	4.0		V1
	204	IZMI	43 NS	0700.0		300.0D	41.0			
	260	ONDR	44 NS	0800.0E			362.0D	16.0		
	245	LEAR	43 NS	2322.8	0232.6	667.2	190.0			
	2840	PEKG	20 GRF	0347.0	0409.5	40.0	4.0			
	100	HIRA	42 SER	0347.6	0348.0	2.5	505.0			
	9395	PEKG	20 GRF	0348.0	0405.0	41.0	4.2	3.8		
	9395	PEKG	20 GRF	0446.0	0452.4	10.0	6.8	3.2		
	606	LEAR	8 S	0515.3	0515.6	.5	42.0			
	245	LEAR	8 S	0621.0	0621.1	.6	160.0			
	245	LEAR	8 S	0654.0	0654.1	.1	160.0			
	606	LEAR	8 S	0654.0	0654.1	.1	17.0			
	113	POTS	4 S/F	0713.4	0713.7	1.3	1800.0	350.0		III
	127	TORN	8 S	0713.7	0714.0	.9	7000.0	3500.0		
	245	LEAR	8 S	0734.6	0734.8	.4	260.0			
	606	LEAR	8 S	0734.6	0734.8	.2	24.0			
	430	KRAK	8 S	0813.7	0813.7	.2	6.0			
	234	POTS	4 S/F	0832.8	0832.9	1.0	250.0	4.0		
	430	KRAK	8 S	0858.2	0858.2	.2	9.0			
	606	LEAR	8 S	0905.1	0905.1	.2	20.0			
	430	KRAK	42 SER	0909.0	0930.8	158.0	29.0			
	430	KRAK		0909.0	1030.4		190.0			
	430	KRAK		0909.0	1144.9		47.0			
	810	KRAK	8 S	0909.1	0909.1	.1	17.0			
	113	POTS	41 F	0910.0	0910.3	1.1	200.0	10.0		III
	410	LEAR	8 S	0931.0	0931.1	.3	29.0			
	606	LEAR	8 S	0931.0	0931.1	.3	11.0			
	810	KRAK	8 S	0931.2	0931.2	.2	8.0			
	930	BORD	41 F	0931.2	0931.4	.2	18.0	2.0		
	536	ONDR	8 S	0931.5	0931.5	.5	16.0			
	100	GORK	41 F	1025.0	1025.3	23.3	110.0D			
	100	GORK		1025.0	1042.4		110.0D			
	100	GORK		1025.0	1043.2		110.0D			
	113	POTS	4 S/F	1041.6	1042.7	1.3	150.0	2.0		III
	204	IZMI	41 F	1142.0	1145.8	4.5	150.0			
	113	POTS	4 S/F	1144.0	1146.0	2.8	700.0	20.0		III
	810	KRAK	8 S	1145.5	1145.5	.2	12.0			
	930	BORD	8 S	1145.9	1145.9	.1	17.0	1.0		
	930	BORD	8 S	1309.4	1309.4	.2	30.0	2.0		
	113	POTS	42 SER	1411.0	1422.8	14.0	2000.0	35.0		III
	930	BORD	8 S	1415.3	1415.3	.1	18.0	2.0		
	2800	OTTA	4 S/F	1528.0	1529.5	3.2	46.0	9.0		
	7000	SADP	46 C	1528.1	1529.4	3.9	62.0	31.0		BR
	930	BORD	3 S	1528.4	1529.5	2.3	20.0	9.0		
	245	SGMR	8 S	1528.6	1529.0	1.0	260.0			
	8800	SGMR	4 S/F	1528.6	1529.3	2.5	52.0			
	1415	SGMR	8 S	1528.8	1529.3	.8	30.0			
	15400	SGMR	8 S	1529.0	1529.1	.5	57.0			
	2695	SGMR	8 S	1529.0	1529.3	.6	46.0			
	606	SGMR	8 S	1529.1	1529.3	.2	19.0			
	4995	SGMR	8 S	1529.3	1529.3	.3	51.0			
	245	SGMR	8 S	1536.8	1536.8	.3	74.0			
	9400	HUAN	2 S/F	2038.0	2038.3	1.3	24.4	9.5		0
	2800	OTTA	1 S	2038.0	2038.4	1.7	7.4	3.0		
	245	LEAR	8 S	2156.8	2157.0	.3	93.0			
	245	LEAR	8 S	2301.3	2301.5	.3	130.0			
21	260	ONDR	43 NS	0752.0		368.0D	1.4			
	606	LEAR	8 S	0049.1	0049.3	1.5	13.0			
	606	LEAR	8 S	0226.3	0226.8	.5	460.0			
	2695	LEAR	8 S	0349.1	0349.1	.2	05.0			
	410	LEAR	8 S	0349.1	0349.1	.2	73.0			
	606	LEAR	8 S	0349.1	0349.1	.2	11.0			
	3750	TYKW	5 S	0425.0	0426.8	4.0	13.0	3.5		
	2840	PEKG	1 S	0426.0	0426.6	3.0	6.2	5.5		
	9400	TYKW	5 S	0426.0	0426.7	2.0	6.0	2.0		
	9395	PEKG	1 S	0426.0	0426.7	2.6	6.3	3.0		
	2000	TYKW	45 C	0426.0	0426.8	3.0	11.0	1.0		
	8800	LEAR	8 S	0426.6	0426.6	1.0	16.0			
	2695	LEAR	8 S	0426.6	0426.6	.7	04.0			
	4995	LEAR	8 S	0426.6	0426.6	1.0	18.0			
	410	LEAR	8 S	0437.8	0438.0	.3	16.0			
	606	LEAR	8 S	0437.8	0438.0	.3	03.0			
	410	LEAR	8 S	0605.0	0605.1	.1	04.0			
	606	LEAR	8 S	0605.0	0605.1	.1	06.0			
	245	LEAR	8 S	0605.0	0605.1	.1	150.0			
	3750	TYKW	5 S	0620.0	0621.7	5.0	6.0	2.5		
	9395	PEKG	1 S	0620.0	0621.8	6.0	2.9	1.4		
	2840	PEKG	1 S	0620.0	0621.8	7.0	3.6	2.6		
	2000	TYKW	5 S	0620.5	0621.7	3.5	3.0	1.0		
	2950	GORK	20 GRF	0620.6	0621.9	11.9	4.4	1.5		
	9400	TYKW	5 S	0621.0	0621.7	2.0	4.0	1.5		
	606	LEAR	8 S	0646.1	0646.1	.2	15.0			
	245	LEAR	8 S	0646.1	0646.1	.2	200.0			
	245	LEAR	8 S	0724.6	0724.8	.9	64.0			
	410	LEAR	8 S	0724.6	0724.8	.5	37.0			
	204	IZMI	5 S	0724.9	0725.0	.8	77.0	33.0		
	245	LEAR	8 S	0726.6	0726.8	.2	200.0			
	410	LEAR	8 S	0726.6	0726.8	.2	02.0			
	606	LEAR	8 S	0726.6	0726.8	.2	37.0			

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	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	POLARIZATION OR REMARKS
21	260	ONDR	46 C	0900.0	0911.0	17.0	23.0			
	430	KRAK	4 S/F	0908.6	0909.8	3.5	120.0	16.0		
	410	LEAR	4 S/F	0908.8	0909.8	2.8	47.0			
	245	LEAR	4 S/F	0909.0	0910.1	2.8	18.0			
	536	ONDR	8 S	1157.0	1158.5	2.0	58.0			
	260	ONDR	4 S/F	1157.5	1158.5	2.0	54.0	12.0		
	260	ONDR	8 S	1219.0	1219.2	.5	29.0			
	536	ONDR	8 S	1219.0	1219.5	.5	66.0U			
	536	ONDR	8 S	1237.5	1237.5	.5	22.0U			
	260	ONDR	8 S	1256.0	1256.5	.7	59.0			
	536	ONDR	8 S	1256.8	1257.0	.7	71.0U			
	536	ONDR	8 S	1304.6	1306.0	1.4U	29.0			
	260	ONDR	8 S	1316.0	1316.5	1.0	104.0			
	536	ONDR	8 S	1316.7	1317.0	1.0	50.0			
	9400	HUAN	20 GRF	1414.5	1418.6	12.0	5.1	1.9		L
	9400	HUAN	2 S/F	1457.7	1459.2	2.4	10.2	4.1		O
	9400	HUAN	21 GRF	1542.9	1557.6	28.2	4.3	3.2		O
	930	BORD	41 F	1553.0	1556.4	10.0U	135.0	2.0		
	606	SGMR	4 S/F	1553.5	1554.6	3.1	200.0			
	2800	OTTA	40 F	1554.0	1556.3	9.0	21.0			
	2800	OTTA	23 GRF	1554.0	1605.0	50.0	2.4	1.2		
	410	SGMR	8 S	1554.6	1554.6	1.0	200.0			
	9400	HUAN	2 S/F	1555.4	1556.3	1.4	13.6	6.4		O
	2695	SGMR	8 S	1555.6	1555.8	.4	24.0			
	1415	SGMR	8 S	1555.6	1556.3	1.0	40.0			
	8800	SGMR	8 S	1555.6	1556.3	1.2	20.0			
	606	SGMR	8 S	1602.1	1602.1	1.2	35.0			
	245	SGMR	8 S	1602.1	1602.1	.5	119.0			
	410	SGMR	8 S	1602.3	1602.3	.3	119.0			
	245	SGMR	8 S	1605.8	1606.0	.7	82.0			
	410	SGMR	8 S	1606.3	1607.1	1.0	20.0			
	410	SGMR	4 S/F	1609.3	1612.1	6.5	130.0			
	606	SGMR	8 S	1611.6	1612.1	1.5	38.0			
	9400	HUAN	2 S/F	1946.7	1948.0	3.3	8.5	4.6		L
	245	LEAR	8 S	2236.3	2236.5	.3	160.0			
	606	LEAR	8 S	2236.3	2236.5	.3	10.0			
	3750	TYKW	45 C	2244.0	2246.6	4.0	6.0	2.0		
	9400	TYKW	45 C	2244.0	2246.6	4.0	6.0	2.0		
	100	HIRA	8 S	2244.7	2244.7	.4	64.0			
	2000	TYKW	45 C	2245.0	2246.6	3.0	4.0	1.5		
22	127	TORN	43 NS	0718.0	0742.7	246.0D	240.0	9.0		VO
	260	ONDR	44 NS	0810.0E		190.0D				
	260	ONDR	44 NS	1146.0E	1312.0U	254.0D	5.0			
	245	LEAR	43 NS	2149.0	0114.0	762.0	139.0			
	9400	TYKW	45 C	0022.6	0023.2	1.0	8.0	.2		
	606	LEAR	8 S	0107.1	0107.8	.9	11.0			
	245	LEAR	8 S	0114.1	0114.3	.4	130.0			
	245	LEAR	8 S	0136.0	0136.1	.3	280.0			
	245	LEAR	8 S	0157.6	0157.8	.2	139.0			
	9395	PEKG	1 S	0216.0	0216.4	6.0	6.7			
	2840	PEKG		0240.0	0243.5		12.0			
	2840	PEKG	45 C	0240.0	0245.2	10.0	26.0	5.6		
	500	HIRA	42 SER	0240.3	0243.0	5.6	450.0			WR
	9400	TYKW	45 C	0240.5	0243.3	6.5	15.0	3.0		
	1000	TYKW	45 C	0240.5	0245.2	7.5	103.0	20.0		
	2000	TYKW	45 C	0240.5	0245.3	7.0	81.0	15.0		
	3750	TYKW	45 C	0240.5	0245.5	6.5	13.0	3.0		
	606	LEAR	47 GB	0240.6	0240.8	5.0	80.0			
	606	MANI	4 S/F	0240.8	0241.4	6.2	45.5	15.2		
	8800	LEAR	47 GB	0240.8	0243.1	2.7	13.0			
	2695	LEAR	47 GB	0240.8	0243.3	5.2	20.0			
	4995	LEAR	47 GB	0240.8	0245.8	5.0	10.0			
	1415	MANI	4 S/F	0241.0	0242.0	6.0	62.3	20.8		
	9395	PEKG		0241.0	0243.4	6.0	11.5	3.8		
	9395	PEKG	45 C	0241.0	0245.5		2.9			
	1415	LEAR	47 GB	0241.1	0241.6	5.0	51.0			
	1415	PALE	47 GB	0241.1	0241.6	3.4	50.0			
	410	LEAR	47 GB	0241.3	0241.6	4.2	43.0			
	2695	MANI	4 S/F	0241.3	0246.0	5.7	46.2	15.4		
	4995	MANI	4 S/F	0241.5	0242.0	4.8	24.1	8.0		
	2695	PALE	47 GB	0241.6	0243.3	2.5	22.0			
	15400	LEAR	47 GB	0243.1	0243.3	.4	13.0			
	410	PALE	8 S	0243.1	0243.3	.7	300.0			
	606	PALE	8 S	0243.1	0243.3	1.0	310.0			
	3750	TYKW	29 PBI	0247.0		5.0	2.0	1.0		
	9400	TYKW	29 PBI	0247.0		7.0	3.0	1.5		
	2000	TYKW	29 PBI	0247.5		7.0	1.5	.7		
	245	LEAR	8 S	0301.5	0301.6	.1	160.0			
	35000	NAGO	5 S	0322.0	0322.0	1.0	18.0			
	9400	TYKW	45 C	0322.0	0322.7	4.0	173.0	34.0		
	2000	TYKW	45 C	0322.0	0322.8	7.0	138.0	25.0		
	2840	PEKG	45 C	0322.0	0322.9	7.0	115.0	29.0		
	3750	TYKW	45 C	0322.0	0322.9	7.0	163.0	29.0		
	9395	PEKG	5 S	0322.0	0322.9	7.0	92.1			
	17000	NOBE	7 C	0322.2	0322.7	1.5	124.0			R
	200	HIRA	8 S	0322.3	0322.3	.4	2700.0			WL
	100	HIRA	45 C	0322.4	0322.6	1.2	990.0	750.0		
	1000	TYKW	45 C	0322.5	0322.8	9.0	67.0	10.0		
	500	HIRA	45 C	0322.5	0322.9	.7	430.0	200.0		WL
	245	PALE	47 GB	0322.6	0322.6	.2	3900.0			

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	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
22	4995	MANI	3	S	0322.8	0323.2	2.7	262.6	87.5		
	2695	MANI	3	S	0322.8	0323.4	4.7	137.2	45.7		
	606	MANI	4	S/F	0322.8	0323.5	1.2	30.9	10.3		
	1415	MANI	4	S/F	0323.0	0323.2	6.5	80.5	26.8		
	8800	MANI	3	S	0323.0	0323.2	2.0	212.0	70.7		
	17000	NOBE	29	PBI	0323.7	0323.7	5.0	16.0			O
	9400	TYKW	29	PBI	0326.0		15.0	5.0	1.5		
	3750	TYKW	30	PBI	0329.0		145.0	4.0	2.0		
	2840	PEKG	29	PBI	0329.0		37.0D	5.0	3.8		
	2000	TYKW	30	PBI	0329.0		130.0	4.0	2.0		
	1000	TYKW	5	S	0334.6	0334.9	7.0	3.0	1.0		
	245	LEAR	8	S	0344.3	0344.3	.2	43.0			
	606	LEAR	8	S	0357.8	0358.1	.5	28.0			
	245	LEAR	8	S	0405.1	0405.3	.2	83.0			
	606	LEAR	8	S	0410.5	0410.6	.1	11.0			
	245	LEAR	8	S	0427.0	0427.1	.1	13.0			
	2000	TYKW	5	S	0435.0	0436.5	4.0	1.5	.5		
	3750	TYKW	5	S	0435.5	0436.2	2.0	2.0	.7		
	1000	TYKW	5	S	0435.5	0436.3	2.0	1.5	.5		
	606	LEAR	8	S	0435.8	0436.0	.5	86.0			
	245	LEAR	8	S	0448.1	0448.1	.2	27.0			
	1000	TYKW	5	S	0521.6	0521.8	.5	1.5	.5		
	1000	TYKW	45	C	0528.0	0528.2	1.0	26.0	8.0		
	245	LEAR	8	S	0620.0	0620.1	.1	17.0			
	9395	PEKG	1	S	0624.0	0626.8	4.0	4.4	1.1		
	2840	PEKG	1	S	0624.5	0626.8	3.5	4.5	1.0		
	6100	KISV	8	S	0626.3	0626.6	.5	4.0			
	606	LEAR	8	S	0626.5	0626.6	.3	57.0			
	9400	TYKW	5	S	0626.5	0626.7	1.0	12.0	3.0		
	1000	TYKW	5	S	0626.5	0626.7	1.0	4.5	1.5		
	2000	TYKW	5	S	0626.5	0626.7	1.5	7.0	2.0		
	3750	TYKW	5	S	0626.5	0626.7	1.5	7.0	2.0		
	2950	GORK	21	GRF	0641.3	0721.0	260.0D	38.0			
	234	POTS	48	C	0646.0	0717.0	131.0	290.0			IV
	2840	PEKG			0653.0	0658.8		87.0			
	2840	PEKG			0653.0	0704.5		113.0			
	2840	PEKG	45	C	0653.0	0706.6	22.0	118.0	37.4		
	9100	GORK	4	S/F	0655.4	0657.4	4.6	345.0			
	15000	KISV	45	C	0655.5	0657.4	17.0	348.0			
	6100	KISV			0655.5	0657.5		170.0			
	6100	KISV	46	C	0655.5	0657.8	17.0	175.0			
	6100	KISV			0655.5	0658.8		150.0			
	15000	KISV			0655.5	0704.8		51.0			
	2695	ATHN	47	GB	0655.6	0706.6	59.0D	200.0			
	650	GORK	47	GB	0655.8	0728.3	94.2	570.0			
	1415	ATHN	47	GB	0655.8	0736.8	49.2	720.0			
	650	GORK			0655.8	0748.0		330.0			
	650	GORK			0655.8	0802.2U		2200.0D			
	650	GORK			0655.8	0804.4U		2200.0D			
	650	GORK			0655.8	0809.0		2200.0			
	1415	LEAR	47	GB	0656.0	0657.0	13.0	380.0			
	1000	TYKW	47	GB	0656.0	0657.1	24.0D	665.0	100.0D		
	2000	TYKW	45	C	0656.0	0657.3	21.0D	173.0	65.0D		
	9400	TYKW	45	C	0656.0	0657.4	19.0	385.0	100.0		
	9395	PEKG			0656.0	0657.5		314.0			
	606	LEAR	47	GB	0656.0	0658.6	13.0	170.0			
	2950	GORK	46	C	0656.0	0700.2	19.5	91.0			
	2950	GORK			0656.0	0704.7		119.0			
	3750	TYKW	45	C	0656.0	0704.7	17.0	165.0	90.0		
	9395	PEKG			0656.0	0704.8		109.0			
	9395	PEKG	46	C	0656.0	0706.4	19.0	106.0	104.0		
	2950	GORK			0656.0	0706.7		121.0			
	2695	MANI	4	S/F	0656.0	0707.6	56.0	140.0	46.7		
	950	GORK	46	C	0656.0	0714.3	89.0	234.0			
	950	GORK			0656.0	0737.4		1900.0			
	1415	MANI	47	GB	0656.0	0747.5	90.0	8003.9	2668.0		
	950	GORK			0656.0	0748.0		4900.0			
	950	GORK			0656.0	0802.3		5000.0			
	2695	LEAR	47	GB	0656.1	0656.8	12.9	119.0			
	8800	LEAR	47	GB	0656.1	0657.3	12.9	430.0			
	4995	LEAR	47	GB	0656.1	0657.8	12.9	210.0			
	8800	MANI	4	S/F	0656.2	0657.8	16.8	318.0	106.0		
	4995	MANI	4	S/F	0656.2	0659.4	20.8	134.0	44.7		
	606	MANI	47	GB	0656.2	0802.3	90.8	4073.4	1357.8		
	15400	LEAR	47	GB	0656.3	0657.3	12.7	240.0			
	17000	NOBE	46	C	0656.5	0657.5	6.0D	205.0			R
	410	LEAR	47	GB	0656.5	0657.6	12.5	160.0			
	200	HIRA	42	SER	0656.5	0700.0	31.0	110.0			O
	8800	ATHN	4	S/F	0657.3	0749.8	52.5D	200.0			
	245	LEAR	47	GB	0657.6	0658.1	11.4	400.0			
	200	GORK	46	C	0657.8	0700.8	8.9	90.0			
	200	GORK			0657.8	0703.3		180.0	1.4		
	500	HIRA	48	C	0658.0	0704.3U	25.0D	700.0			SR,SUNSET
	9100	GORK	30	PBI	0700.0	0700.2	240.0D	150.0			
	9500	POTS	45	C	0700.0E	0705.0	97.0D	45.0			
	3000	POTS	46	C	0700.0E	0706.5	80.0D	210.0			
	204	IZMI	46	C	0700.0	0717.3	106.5	140.0	30.0		
	1470	POTS	46	C	0700.0E	0744.5	85.0D	1660.0			
	6100	KISV			0703.0	0704.8		90.0			
	9100	GORK	45	C	0703.3	0704.9	5.9	21.0			
	9100	GORK			0703.3	0706.3		17.0			

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
22	245	LEAR	47 GB	0709.0	0709.3	10.3	270.0			
	410	LEAR	47 GB	0709.0	0710.0	10.3	270.0			
	1415	LEAR	47 GB	0709.0	0714.0	10.3	200.0			
	2695	LEAR	47 GB	0709.0	0714.6	10.3	59.0			
	200	GORK	4 S/F	0710.9	0711.8	1.9	25.0			
	6100	KISV	29 PBI	0712.0	0712.0	90.0	20.0			
	200	GORK	46 C	0712.9	0718.4	25.0	145.0			
	200	GORK		0712.9	0728.4		130.0			
	200	GORK	46 C	0712.9	0733.5		90.0			
	3750	TYKW	29 PBI	0713.0		1.0D	20.0	20.0D		
	9400	TYKW	29 PBI	0715.0		4.0D	22.0	20.0D		
	2840	PEKG	29 PBI	0715.0		28.0D	32.0			
	9395	PEKG	29 PBI	0715.0		29.0D	28.0			
	100	GORK	27 RF	0717.2	0733.0	102.0	30.0			
	2695	LEAR	47 GB	0719.3	0721.3	11.0	50.0			
	245	LEAR	47 GB	0719.3	0727.0	11.0	340.0			
	1415	LEAR	47 GB	0730.3	0732.5	19.3	110.0			
	606	LEAR	47 GB	0730.3	0732.8	19.3	300.0			
	410	LEAR	47 GB	0730.3	0745.8	19.3	79.0			
	200	GORK	30 PBI	0736.1	0736.1	192.0	28.0			
	606	LEAR	47 GB	0749.6	0802.1U	21.5	500.0			
	410	LEAR	47 GB	0749.6	0802.1	21.5	1900.0			
	1415	LEAR	47 GB	0749.6	0802.1U	21.5	5600.0			
	245	LEAR	47 GB	0749.6	0803.3	21.5	300.0			
	810	KRAK	49 GB	0755.0E	0808.5	25.0D	510.0D	70.0D		
	430	KRAK	49 GB	0755.0E	0904.0	90.0D	800.0D	50.0D		
	200	GORK	46 C	0756.6	0800.0	16.4	50.0			
	200	GORK		0756.6	0803.8		50.0			
	930	BORD	45 C	0809.0E	0809.4	21.0U	3600.0	106.0		
	260	ONDR	48 C	0810.0E	0812.0U	40.0D	81.0			
	536	ONDR	48 C	0810.0E	0821.5	20.0D	606.0			
	808	ONDR	48 C	0811.0	0813.0	19.5	323.0	93.0		
	200	GORK	4 S/F	0818.0	0821.1	6.8	28.0			
	650	GORK	29 PBI	0830.0	0830.0	78.0	20.0			
	200	GORK	46 C	0837.2	0839.5	5.5	16.0			
	200	GORK		0837.2	0841.4		16.0			
	1470	POTS	20 GRF	0950.0	1110.0	240.0	14.0			
	9500	POTS	20 GRF	1000.0	1110.0	230.0	20.0			
	3000	POTS	20 GRF	1000.0	1141.0	230.0	25.0			
	245	LEAR	8 S	1004.6	1004.8	.2	19.0			
	6100	KISV	27 RF	1005.0	1057.0	120.0	12.0			
	430	KRAK	8 S	1214.3	1214.4	.2	23.0			
	930	BORD	41 F	1219.3	1219.4	.4	30.0	2.0		
	2800	OTTA	26A FAL	1400.0	1501.0	61.0	-8.2	-4.1		
	2800	OTTA	40 F	1458.0	1459.2	2.0	3.0			
	2800	OTTA	21 GRF	1536.0	1544.0	40.0	2.4	1.2		
	930	BORD	41 F	1537.0	1537.2	1.3	26.0	2.0		
	15400	SGMR	4 S/F	1537.1	1537.8	1.2	24.0			
	2800	OTTA	1 S	1537.2	1537.9	1.2	4.6	2.3		
	7000	SAOP	3 S	1537.2	1537.9	1.4	32.0	16.0		21R
	2695	SGMR	8 S	1537.3	1537.8	1.5	15.0			
	9400	HUAN	3 S	1537.4	1538.1	1.4	23.3	9.3		R
	8800	SGMR	8 S	1537.6	1537.8	.5	30.0			
	4995	SGMR	8 S	1537.6	1538.0	.5	18.0			
	9400	HUAN	2 S/F	1742.9	1743.8	1.6	16.6	6.3		0
	2800	OTTA	2 S/F	1743.0	1744.0	4.0	3.0	1.2		
	7000	SAOP	4 S/F	1743.2	1743.9	3.9	13.0	6.0		0
	200	TYKW	5 S	2329.3	2329.4	.5	1.5	.5		
	1000	TYKW	5 S	2329.3	2329.4	.5	1.0	.3		
	9400	TYKW	5 S	2329.3	2329.4	.5	8.0	1.5		
	3750	TYKW	5 S	2329.3	2329.4	.5	3.0	1.0		
23	260	ONDR	44 NS	0810.0E	1228.0	353.0D	9.0U			
	2695	SGMR	43 NS	1529.8	1530.5	42.0	39.0			
	245	LEAR	43 NS	2222.0	0219.8	730.0D	440.0			
	606	LEAR	8 S	0103.8	0103.8	.2	25.0			
	1000	TYKW	5 S	0130.2	0130.4	.5	12.0	2.5		
	1000	TYKW	5 S	0155.4	0155.6	.5	5.0	1.0		
	606	LEAR	8 S	0239.6	0239.8	.2	46.0			
	606	LEAR	8 S	0244.0	0244.1	.1	42.0			
	3750	TYKW	20 GRF	0440.0	0455.0	60.0	3.0	1.5		
	9400	TYKW	21 GRF	0440.0	0500.0	50.0	4.0	2.0		
	410	LEAR	8 S	0446.5	0446.8	.5	10.0			
	245	LEAR	8 S	0446.5	0446.8	.5	08.0			
	9400	TYKW	5 S	0455.6	0455.8	.5	15.0	5.0		
	2000	TYKW	5 S	0624.0	0624.8	3.0	11.0	2.5		
	3750	TYKW	5 S	0624.0	0624.8	2.0	4.0	1.5		
	606	LEAR	8 S	0624.5	0624.8	.6	10.0			
	2695	LEAR	8 S	0624.5	0624.8	1.1	11.0			
	1000	TYKW	5 S	0624.5	0624.8	1.5	37.0	5.0		
	1415	LEAR	8 S	0624.6	0624.8	1.0	22.0			
	410	LEAR	8 S	0707.0	0707.1	.5	27.0			
	245	LEAR	8 S	0707.1	0707.1	.4	40.0			
	606	LEAR	8 S	0707.1	0707.1	.4	26.0			
	410	LEAR	8 S	0715.8	0717.0	1.3	180.0			
	930	BORD	8 S	0752.0	0752.3	.5	26.0	2.0		
	410	LEAR	8 S	0833.8	0833.8	.2	70.0			
	606	LEAR	4 S/F	0833.8	0833.8	.1	20.0			
	930	BORD	8 S	1100.1	1100.1	.2	134.0	2.0		
	9500	POTS	20 GRF	1150.0	1206.0	70.0	11.0			
	536	ONDR	46 C	1154.0	1201.0	11.2	31.0	23.0		

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	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	POLARIZATION OR REMARKS
23	7000	SAOP	27	RF	1154.4		33.8	9.0	4.0		0
	810	KRAK	1	S	1154.4	1155.4	2.5	5.0	3.0		
	430	KRAK	5	S	1156.2	1200.5	9.6	41.0	17.0		
	260	ONDR	8	S	1217.0	1217.0	1.3	12.0			
	260	ONDR	8	S	1255.0	1255.3	1.0	10.0			
	260	ONDR	4	S/F	1304.7	1309.0	14.0	18.0	4.0		
	2695	ATHN	4	S/F	1308.3	1310.3	3.7	19.0			
	808	ONDR	3	S	1308.4	1309.5	3.0	25.0	17.0		
	1470	POTS	4	S/F	1308.5	1309.2	3.5	55.0			
	930	BORD	45	C	1308.5	1309.3	13.5	52.0	5.0		
	810	KRAK	45	C	1308.5	1309.4	2.5	40.0	13.0		
	536	ONDR	3	S	1308.5	1309.5	3.0	13.0	8.0		
	3000	POTS	4	S/F	1308.5	1310.2	3.0	19.0			
	1415	ATHN	4	S/F	1308.6	1309.0	15.9	170.0			
	2800	OTTA	46F	C	1308.6	1310.0	3.0	16.2	6.2		
	2650	DWIN	2	S/F	1309.0	1309.0	2.0	20.0	10.0		
	9400	HUAN	20	GRF	1313.1	1325.3	37.2	5.1	2.8		0
	430	KRAK	1	S	1315.3	1315.5	1.5	5.0	2.0		
	810	KRAK	1	S	1315.3	1315.6	1.1	6.0	3.0		
	7000	SAOP	40	F	1500.0	1531.2	201.9	27.0	13.0		0
	930	BORD	41	F	1523.0	1523.2	.4	71.0	2.0		
	2800	OTTA	3	S	1529.5	1530.5	2.0D	21.0			
	9400	HUAN	1	S	1530.1	1530.7	1.5	6.8	3.8		0
	4995	SGMR	8	S	1530.3	1530.5	.3D	17.0			
	2695	PENT	240	R	2125.0	2150.0	25.0	4.4	2.2		
	2695	PENT	1	S	2212.0	2212.5	1.0	3.6	1.8		
24	536	ONDR	43	NS	1310.0		55.0D	11.0			
	245	LEAR	43	NS	2149.0	0127.0	763.0	280.0			
	3750	TYKW	5	S	0114.5	0115.2	5.5	6.0	2.0		
	2000	TYKW	5	S	0114.5	0115.3	5.0	11.0	2.0		
	1000	TYKW	5	S	0114.5	0115.5	3.5	1.0	.3		
	2840	PEKG	5	S	0114.8	0115.2	3.2	13.0	6.9		
	245	LEAR	8	S	0202.6	0202.8	.4	270.0			
	410	LEAR	8	S	0202.6	0202.8	.2	02.0			
	606	LEAR	8	S	0658.0	0658.0	.1	17.0			
	245	LEAR	8	S	0658.0	0658.0	.1	190.0			
	260	ONDR	46	C	0851.0	0853.0	3.5	8.0	9.0		
	930	BORD	8	S	1100.7	1100.7	.2	122.0	2.0		
	260	ONDR	40	F	1109.0	1109.5	5.0	6.0	2.0		
	260	ONDR	8	S	1125.5	1125.7	.3	21.0			
	260	ONDR	8	S	1205.0	1205.3	.6	30.0			
	536	ONDR	8	S	1206.8	1206.8	.7	58.0			
	260	ONDR	40	F	1312.0	1313.8	3.0	14.0	2.0		
	430	KRAK	8	S	1343.9	1343.9	.1	15.0			
	2800	OTTA	240	R	1505.0	1520.0	15.0	3.8	2.4		
	930	BORD	8	S	1522.2	1522.2	.2	34.0	2.0		
	7000	SAOP	20	GRF	1541.2	1547.5	16.0	15.0	7.0		0
	7000	SAOP	40	F	1554.0		16.0	21.0	10.0		0
	7000	SAOP	40	F	1813.0		14.0	21.0	10.0		0
	9400	HUAN	21	GRF	1935.1	1957.2	35.2	6.5	4.7		L
	7000	SAOP	20	GRF	1950.2	1952.1		18.0	9.0		9L
	9400	HUAN	1	S	1950.9	1951.9	2.2	8.1	4.6		L
	2800	OTTA	20	GRF	2035.0	2055.0	55.0	2.8	1.6		
	1000	TYKW	5	S	2259.0	2259.2	.5	12.0	3.0		
	245	LEAR	4	S/F	2317.0	2317.0	.1	320.0			
	606	LEAR	4	S/F	2317.0	2317.0	.1	13.0			
25	410	LEAR	43	NS	0205.5	0403.1	506.5D	26.0			
	200	MIRA	43	NS	0423.0	0448.0	87.0	6.0	3.0		0
	200	GORK	44	NS	0553.0E		367.0D		5.0		
	536	ONDR	44	NS	0810.0E		70.0D	17.0			
	260	ONDR	44	NS	0810.0E		345.0D	9.0			
	245	SGMR	43	NS	1825.8	1859.8	144.2D	170.0			
	410	SGMR	43	NS	1833.3	1854.6	136.7D	20.0			
	245	LEAR	43	NS	2149.0	0737.0	764.0	600.0			
	3750	TYKW	21	GRF	0146.0	0152.0	40.0	2.0	1.0		
	9400	TYKW	21	GRF	0146.0	0152.0	40.0	3.0	1.5		
	4995	LEAR	4	S/F	0146.5	0148.1	2.5	10.0			
	8800	LEAR	4	S/F	0146.6	0148.3	2.2	11.0			
	3750	TYKW	5	S	0147.5	0148.2	1.5	3.0	1.0		
	9400	TYKW	5	S	0147.5	0148.2	1.5	5.0	2.0		
	2000	TYKW	45	C	0154.0	0202.7	15.0	6.0	.7		
	1000	TYKW	42	SER	0157.5	0157.7	3.0	5.0	.5		
	410	LEAR	4	S/F	0159.8	0202.5	3.8	58.0			
	1000	TYKW	45	C	0201.5	0202.4	3.0	41.0	5.0		
	3750	TYKW	5	S	0201.5	0202.6	2.5	4.0	1.5		
	9400	TYKW	5	S	0202.0	0202.6	2.0	6.0	3.0		
	1415	LEAR	8	S	0202.1	0203.0	1.4	26.0			
	1000	TYKW	5	S	0238.0	0238.2	.5	7.0	1.5		
	9400	TYKW	5	S	0302.0	0304.0U	2.0D	17.0D	6.0D		
	245	LEAR	8	S	0302.1	0302.6	.9	40.0			
	410	LEAR	8	S	0302.1	0302.8	1.0	13.0			
	8800	LEAR	4	S/F	0302.3	0303.8	2.2	23.0			
	9395	PEKG	5	S	0302.8	0304.1	4.2	14.0	7.3		
	4995	LEAR	8	S	0303.0	0304.0	1.8	11.0			
	3750	TYKW	45	C	0303.0E	0304.2	11.0D	8.0	3.0D		
	2840	PEKG	5	S	0303.0	0308.7	10.0D	4.3			
	9400	TYKW	29	PBI	0307.0E		50.0D	6.0D	3.0D		
	3750	TYKW	29	PBI	0314.0		35.0	3.0	1.5		
	410	LEAR	8	S	0406.0	0406.0	.1	17.0			

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	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
25	245	LEAR	8 S	0406.0	0406.1	.1	19.0			
	606	LEAR	8 S	0517.0	0517.3	.6	10.0			
	1415	MANI	2 S/F	0517.0	0519.4	6.5	9.2	3.1		
	2695	MANI	4 S/F	0517.0	0521.0	6.5	25.2	8.4		
	245	LEAR	4 S/F	0517.3	0517.3	.1	64.0			
	2000	TYKW	45 C	0518.0	0521.6	11.0	13.0	5.0		
	2840	PEKG	3 S	0518.0	0521.8	11.0	25.0	10.0		
	4995	MANI	4 S/F	0518.2	0521.0	5.3	24.8	8.2		
	3750	TYKW	45 C	0518.5	0521.7	10.5	28.0	8.0		
	1000	TYKW	45 C	0519.0	0519.3	3.0	14.0	2.0		
	9400	TYKW	45 C	0519.0	0522.0	5.0	17.0	9.0		
	1415	LEAR	47 GB	0519.1	0520.1	6.7	13.0			
	2695	LEAR	47 GB	0519.1	0521.6	7.0	27.0			
	245	LEAR	47 GB	0519.8	0522.1	2.3	13.0			
	410	LEAR	47 GB	0520.0	0520.3	.8	51.0			
	9395	PEKG	3 S	0520.0	0522.0	11.0	17.0	8.3		
	4995	LEAR	47 GB	0520.1	0521.6	5.7	24.0			
	200	HIRA	46 C	0520.3	0520.6	13.0	140.0	6.0		0
	8800	LEAR	47 GB	0520.3	0521.8	7.3	21.0			
	200	HIRA		0520.3	0524.0		53.0			0
	606	LEAR	47 GB	0521.1	0521.3	.2	04.0			
	15400	LEAR	47 GB	0521.3	0521.8	2.8	13.0			
	9400	TYKW	29 PBI	0524.0		25.0	9.0	3.0		
	100	HIRA	46 C	0527.0		8.4	990.0D	320.0D		
	100	HIRA		0527.0	0527.6		980.0			
	3750	TYKW	29 PBI	0529.0		15.0	2.0	1.0		
	606	LEAR	8 S	0644.1	0644.6	.7	23.0			
	245	LEAR	8 S	0644.3	0644.6	.3	66.0			
	410	LEAR	8 S	0644.3	0644.6	.3	42.0			
	650	GORK	40 F	0734.2	0744.7	27.3	28.0			
	650	GORK		0734.2	0749.1		18.0			
	930	BORD	41 F	0739.5	0740.5	1.0	117.0	1.0		
	410	LEAR	8 S	0740.3	0740.5	.3	38.0			
	606	LEAR	8 S	0740.3	0740.5	.3	280.0			
	410	LEAR	8 S	0741.6	0742.6	1.7	18.0			
	606	LEAR	8 S	0742.1	0742.6	.7	93.0			
	200	GORK	4 S/F	0743.6	0746.4	7.0	100.0			
	2950	GORK	20 GRF	0743.7	0744.3	197.0	5.8			
	606	LEAR	8 S	0743.8	0744.6	1.0	160.0			
	410	LEAR	8 S	0744.6	0745.5	1.0	83.0			
	204	IZMI	41 F	0745.0	0745.5	1.5	300.0			
	234	POTS	4 S/F	0745.0	0745.6	.6	300.0	15.0		
	245	LEAR	8 S	0745.3	0745.5	.5	480.0			
	4995	LEAR	8 S	0748.5	0748.8	.5	41.0			
	606	LEAR	8 S	0748.6	0748.8	.2	34.0			
	245	LEAR	8 S	0749.1	0749.3	.5	16.0			
	1470	POTS	40 F	0749.7	0751.6	3.3	8.0			
	410	LEAR	8 S	0749.8	0750.1	.5	19.0			
	930	BORD	41 F	0751.0	0751.5	.7	45.0	2.0		
	410	LEAR	8 S	0809.5	0810.5	2.0	23.0			
	204	IZMI	41 F	0810.1	0811.5	1.4U	670.0			
	234	POTS	41 F	0810.3	0811.7	1.7	1050.0	7.0		III
	245	LEAR	47 GB	0810.6	0810.8	.5	1399.0			
	1415	LEAR	4 S/F	0827.0	0832.8	8.0	08.0			
	2695	LEAR	4 S/F	0828.0	0832.8	7.0	11.0			
	127	TORN	41 F	0856.5	0902.5	18.0	50.0	3.0		
	260	ONDR	46 C	0955.0	1000.5	6.8	199.0	6.0		
	410	LEAR	8 S	0956.3	0956.8	.7	10.0			
	245	LEAR	8 S	0956.6	0956.8	.2	119.0			
	410	LEAR	8 S	0958.8	0958.8	1.7	25.0			
	245	LEAR	8 S	0958.8	0959.5	2.0	500.0			
	127	TORN	7 C	0959.2	0959.8	2.0	50.0	1.0		
	234	POTS	4 S/F	0959.5	1000.5	1.2	500.0	7.0		III
	204	IZMI	41 F	0959.8	0959.9	4.0	300.0			
	536	ONDR	4 S/F	1000.0	1000.8	2.0	7.0	3.0		
	3000	POTS	42 SER	1203.0	1211.0	12.0	10.0			
	9500	POTS	42 SER	1203.5	1210.7	10.0	11.0			
	1470	POTS	42 SER	1203.5	1211.4	10.0	24.0			
	260	ONDR	4 S/F	1203.6	1204.7	2.0	179.0	7.0		
	810	KRAK	1 S	1203.7	1203.8	1.3	4.0			
	430	KRAK	42 SER	1203.8	1205.0	10.2	290.0			
	430	KRAK		1203.8	1211.1		690.0			
	536	ONDR	8 S	1204.0	1204.3	1.8	21.0			
	7000	SAOP	28 PRE	1204.1	1204.7	6.1	6.0	3.0		
	234	POTS	42 SER	1204.6	1210.8	6.3	2900.0	12.0		III
	2650	DWIN	1 S	1205.0	1205.0	1.0	10.0	5.0		
	260	ONDR	4 S/F	1209.6	1211.0	5.6	21.2U	4.0		
	808	ONDR	3 S	1210.0	1211.5	3.2	5.0	6.0		
	810	KRAK	3 S	1210.1	1210.8	2.1	11.0	5.0		
	7000	SAOP	3 S	1210.4	1210.7	1.6	25.0	12.0		14L
	9400	HUAN	3 S	1210.6	1210.8	1.9	13.1	4.9		L
	536	ONDR	8 S	1210.8	1211.3	4.0	46.0			
	2650	DWIN	1 S	1211.0	1211.0	1.0	5.0	2.0		
	7000	SAOP	29 PBI	1212.0		7.4	8.0	4.0		
	7000	SAOP	20 GRF	1252.0	1253.4	26.7	12.0	6.0		0
	930	BORD	41 F	1252.4	1253.4	2.2	36.0	2.0		
	3000	POTS	3 S	1252.4	1254.4	2.5	6.5			
	1470	POTS	4 S/F	1252.5	1253.4	2.5	26.0			
	9400	HUAN	1 S	1252.7	1253.5	1.8	4.9	2.6		0
	2650	DWIN	1 S	1253.0	1253.0	2.0	10.0	5.0		
	810	KRAK	8 S	1253.4	1253.5	.2	30.0			

SOLAR RADIO EMISSION
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	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
25	9500	POTS	1	S	1253.4	1253.8	.6	8.0			
	2800	OTTA	1	S	1456.0	1456.8	3.0	4.2	1.4		
	2800	OTTA	1	S	1719.0	1719.8	3.0	5.2	1.6		
	2800	OTTA	4	S/F	1815.5	1817.8	5.0	26.0	7.0		
	7000	SAOP	45	C	1816.1	1817.7	2.7	66.0	33.0		11L
	410	SGMR	8	S	1816.3	1817.1	1.8	260.0			
	9400	HUAN	4	S/F	1816.4	1817.8	2.8	34.5	20.4		L
	2695	SGMR	8	S	1816.6	1817.8	1.5	34.0			
	8800	SGMR	8	S	1816.6	1817.8	2.0	56.0			
	245	SGMR	47	GB	1817.0	1817.8	1.1	530.0			
	606	SGMR	8	S	1817.1	1817.6	1.4	40.0			
	4995	SGMR	8	S	1817.3	1817.8	.8	39.0			
	1415	SGMR	8	S	1817.5	1817.8	.5	23.0			
	7000	SAOP	29	PBI	1818.8			9.0	4.0		
	9400	HUAN	29	PBI	1819.2	1819.2	12.4	8.2	3.9		L
	245	SGMR	8	S	1825.6	1825.6	.2	62.0			
	410	SGMR	8	S	1833.1	1833.1	.2	20.0			
	2800	OTTA	240	R	1835.0	1920.0	45.0	3.4	1.8		
	2695	PENT	20	GRF	2050.0	2105.0	45.0	3.0	2.2		
	2000	TYKW	45	C	2318.0	2320.3	4.0	26.0	5.0		
	1000	TYKW	45	C	2318.0	2324.4	16.0	16.0	3.5		
	3750	TYKW	21	GRF	2318.0	2326.0	80.0	6.0	2.0		
	3750	TYKW	45	C	2319.0	2320.6	3.0	7.0	3.0		
	9400	TYKW	20	GRF	2319.0	2326.0	60.0	8.0	4.0		
	245	LEAR	4	S/F	2319.3	2321.3	4.5	19.0			
	15400	LEAR	47	GB	2319.5	2322.6	7.0	11.0			
	8800	LEAR	4	S/F	2319.8	2325.0	7.3	13.0			
	410	LEAR	47	GB	2320.0	2323.1	6.0	56.0			
	2695	LEAR	47	GB	2320.1	2320.3	2.7	16.0			
	500	HIRA	45	C	2320.2	2320.5	2.0	54.0	10.0		0
	2000	TYKW	29	PBI	2322.0		10.0	4.0	2.0		
26	260	ONDR	44	NS	0805.0E		348.0D				
	127	TORN	43	NS	0956.0	1235.3	216.0D	20.0	2.0		VO
	245	SGMR	43	NS	1212.0	1615.0	517.0D	92.0			
	245	LEAR	43	NS	2149.0	0839.3	765.0	53.0			
	245	LEAR	4	S/F	0356.1	0356.1	2.4	13.0			
	410	LEAR	47	GB	0356.1	0358.3	2.7	19.0			
	606	LEAR	8	S	0442.0	0442.0	.1	17.0			
	606	LEAR	8	S	0503.6	0503.8	.2	08.0			
	410	LEAR	8	S	0503.6	0503.8	.2	10.0			
	410	LEAR	8	S	0633.8	0634.1	.5	34.0			
	410	LEAR	8	S	0656.8	0656.8	.8	27.0			
	606	LEAR	8	S	0743.1	0743.1	.2	28.0			
	245	LEAR	8	S	0743.1	0743.1	.2	139.0			
	650	GORK	22	GRF	0818.7	0824.6	18.3	6.5			
	430	KRAK	42	SER	0824.5	0834.6	11.5	32.0			
	260	ONDR	46	C	0830.0	0830.8	2.0	22.0	10.0		
	6100	KISV	1	S	0841.0	0841.6	1.5	4.0			
	2950	GORK	20	GRF	0841.1	0841.5	4.3	3.6	1.5		
	113	POTS	8	S	0849.5	0849.5	.2	250.0	80.0		III
	245	LEAR	8	S	0850.0	0850.1	.1	19.0			
	2650	DWIN	1	S	0931.0	0931.0	3.0	30.0	15.0		
	9500	POTS	1	S	0931.0	0931.5	3.0	10.0			
	3000	POTS	4	S/F	0931.0	0931.5	3.0	36.0			
	1470	POTS	3	S	0931.0	0931.7	3.0	6.0			
	6100	KISV	4	S/F	0931.1	0931.5	2.5	17.0			
	2695	LEAR	8	S	0931.1	0931.6	1.9	40.0			
	9100	GORK	1	S	0931.1	0931.6	6.9	19.0			
	2950	GORK	3	S	0931.2	0931.6	1.4	31.0	15.0		
	4995	LEAR	8	S	0931.3	0931.5	1.5	30.0			
	15400	LEAR	8	S	0931.3	0931.6	.8	20.0			
	8800	LEAR	8	S	0931.3	0931.6	.7	20.0			
	3100	CRIM	1	S	0932.0	0932.3	3.0	27.0	8.0		
	2950	GORK	29	PBI	0932.5	0932.5	50.0	6.9			
	9500	POTS	20	GRF	0942.0	1014.5	43.0	10.0			
	430	KRAK	45	C	1011.4	1014.9	3.5U	880.0	110.0		
	650	GORK	22	GRF	1011.7	1017.4	18.3	5.0			
	245	LEAR	47	GB	1013.5	1014.3	2.5	500.0			
	204	IZMI	5	S	1013.9	1014.5	1.1	105.0	750.0		
	260	ONDR	46	C	1014.0	1014.5	2.8	182.0	19.0		
	1470	POTS	4	S/F	1014.0	1014.5	1.5	7.0			
	234	POTS	4	S/F	1014.1	1014.4	.9	575.0	25.0		III
	410	LEAR	8	S	1014.1	1014.8	1.7	130.0			
	113	POTS	42	SER	1056.2	1056.3	3.1	175.0	5.0		III
	8800	ATHN	8	S	1107.1	1107.5	1.5	130.0			
	8800	ATHN	4	S/F	1232.5	1233.3	7.3	91.0			
	430	KRAK	8	S	1309.3	1309.5	.6	19.0			
	930	BORD	8	S	1336.3	1336.4	.1	28.0	1.0		
	930	BORD	8	S	1341.0	1341.0	.1	20.0	1.0		
	2800	OTTA	1	S	1426.5	1427.5	3.5	3.2	1.8		
	2800	OTTA	46F	C	1613.0	1618.4	16.0	47.0	22.8		
	7000	SAOP	45	C	1613.8	1618.6	13.5	49.0	24.0		SR
	1415	SGMR	4	S/F	1616.3	1616.8	2.8	50.0			
	4995	SGMR	47	GB	1616.6	1618.6	13.9	43.0			
	606	SGMR	8	S	1616.8	1617.3	1.8	22.0			
	2695	SGMR	47	GB	1617.0	1618.6	8.8	40.0			
	8800	SGMR	47	GB	1617.0	1618.6	33.1	37.0			
	410	SGMR	8	S	1617.8	1618.6	1.0	91.0			
	7000	SAOP	29	PBI	1627.4		45.6	29.0	14.0		
	2800	OTTA	29	PBI	1629.0	1629.0	55.0	9.4	4.4		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1981

	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
26	7000	SAOP	4 S/F	1758.8	1800.4	2.0	14.0	7.0		17L
	2800	OTTA	3 S	1759.5	1800.4	2.5	10.4	3.4		
	7000	SAOP	29 PBI	1800.7		2.9	4.0	2.0		
	2800	OTTA	31 ABS	1802.0	1810.0	28.0	-2.2	-1.1		
	2800	OTTA	4 S/F	1934.0	1938.0	6.0	19.0	8.0		
	4995	SGMR	8 S	1936.8	1937.8	1.8	26.0			
	9400	HUAN	20 GRF	1936.8	1942.7	36.7	16.3	7.5		L
	2695	SGMR	8 S	1937.1	1938.0	1.0	21.0			
	8800	SGMR	8 S	1937.6	1938.8	2.0U	16.0			
	2800	OTTA	29 PBI	1940.0	1940.0	20.0	6.4	3.2		
	410	SGMR	8 S	1940.5	1941.8	1.6	60.0			
	410	PALE	8 S	1944.0	1944.1	.3	139.0			
	2695	PENT	20 GRF	2005.0	2022.0	30.0	3.6	1.8		
	410	SGMR	4 S/F	2016.8	2017.5	2.3	20.0			
	410	SGMR	47 GB	2022.8	2025.1	13.3	88.0			
	410	SGMR	47 GB	2036.1	2038.3	7.0	69.0			
	2695	PENT	21 GRF	2040.0	2052.0	30.0	3.0	1.5		
	2695	PENT	8 S	2053.7	2053.8	.3	5.8	2.9		
	3750	TYKW	5 S	2324.0	2326.0	6.0	2.0	1.0		
	9400	TYKW	45 C	2325.0	2325.6	1.5	11.0	3.0		
	8800	LEAR	8 S	2325.1	2325.6	1.0	11.0			
	4995	LEAR	8 S	2325.1	2326.1	1.0	05.0			
27	127	TORN	43 NS	0809.0		501.0D		1.0		V1,DISTURBED
	200	HIRA	44 NS	2127.0E	2304.0	590.0D	10.0	5.0		MR
	245	LEAR	43 NS	2222.8	0504.0	731.2	210.0			
	410	LEAR	43 NS	2235.6	0347.1	718.4	24.0			
	606	LEAR	8 S	0208.6	0208.8	.4	200.0			
	3750	TYKW	5 S	0208.6	0208.9	1.5	5.0	1.0		
	2000	TYKW	5 S	0208.7	0209.0	1.0	3.0	1.0		
	1000	TYKW	5 S	0208.8	0209.0	1.0	1.0	.3		
	9400	TYKW	45 C	0429.5	0431.0	4.5	6.0	1.5		
	3750	TYKW	45 C	0429.5	0431.8	8.0	6.0	2.0		
	2000	TYKW	45 C	0430.0	0431.8	3.0	2.5	1.0		
	3750	TYKW	5 S	0517.0	0520.4	10.0	4.0	2.0		
	606	LEAR	8 S	0646.1	0646.3	.2	30.0			
	2950	GORK	20 GRF	0702.2	0809.0	228.0	5.8	2.5		
	245	LEAR	8 S	0731.1	0731.1	.2	11.0			
	606	LEAR	8 S	0731.1	0731.1	.2	13.0			
	3200	BERN	3 S	0931.0	0931.5	3.0	37.0			ONLY PAPER REC
	5200	BERN	3 S	0931.0	0931.5	3.0	46.0			ONLY PAPER REC
	430	KRAK	8 S	1003.9	1003.9	.2	38.0			
	536	ONDR	8 S	1036.2	1036.4	.7	46.0			
	260	ONDR	8 S	1036.3	1036.6	.8	36.0			
	430	KRAK	8 S	1051.6	1051.6	.2	25.0			
	930	BORD	8 S	1109.3	1109.3	.1	41.0	1.0		
	260	ONDR	8 S	1307.2	1307.5	.6	67.0			
	536	ONDR	8 S	1307.8	1308.0	.8	35.0			
	2800	OTTA	20 GRF	1350.0	1415.0	160.0	4.6	2.3		
	2800	OTTA	4 S/F	1722.0	1723.0	3.0	16.8	5.0		
	2800	OTTA	20 GRF	1800.0	1840.0	70.0	2.6	1.4		
	2800	OTTA	20 GRF	1950.0	2000.0	30.0	2.4	1.8		
	245	LEAR	8 S	2201.5	2201.6	.1	150.0			
	9400	HUAN	2 S/F	2201.9	2202.1	1.5	20.0	10.8		R
28	208	VORO	44 NS	0000.0E		240.0D		16.0		
	200	GORK	44 NS	0541.0E		320.0D		5.0		
	127	TORN	43 NS	0722.0	1025.0	388.0D	90.0	2.0		V1
	260	ONDR	44 NS	0830.0E		325.0D	13.0U			
	100	HIRA	44 NS	2128.0E	2214.0	150.0D	65.0	10.0		
	200	HIRA	44 NS	2128.0E	2243.0	590.0D	50.0	20.0		MR
	245	LEAR	43 NS	2149.0	2202.8	766.0	130.0			
	410	LEAR	43 NS	2149.0	2314.5	766.0	17.0			
	3750	TYKW	20 GRF	0125.0	0131.7	45.0	3.0	1.0		
	9395	PEKG	5 S	0144.0	0151.1	7.1U	17.0	4.3		
	9395	PEKG	21 GRF	0156.0	0202.0	12.0	15.0	4.4		
	3750	TYKW	5 S	0227.0	0230.6	7.0	3.0	1.5		
	9395	PEKG	1 S	0452.0	0453.4	4.0	8.2	4.5		
	2840	PEKG	21 GRF	0624.0	0633.0	28.0	4.3	2.2		
	6100	KISV	45 C	0625.5	0630.1	7.0	15.0			
	6100	KISV		0625.5	0630.4		16.0			
	650	GORK	22 GRF	0628.3	0634.8	8.2	7.5			
	9395	PEKG	5 S	0629.0	0630.5	5.0	15.0	2.3		
	100	GORK	8 S	0629.7	0630.2U	1.1	50.0D			
	950	GORK	1 S	0629.7	0630.4	1.1	2.0			
	2950	GORK	1 S	0629.7	0630.4	1.7	7.8	3.9		
	9100	GORK	2 S/F	0629.7	0630.4	2.2	16.0			
	245	LEAR	47 GB	0629.8	0630.1	.7	850.0			
	2840	PEKG	1 S	0630.0	0630.2	1.5	4.6	3.9		
	4995	LEAR	8 S	0630.0	0630.3	.5	21.0			
	8800	LEAR	8 S	0630.0	0630.3	.5	19.0			
	9395	PEKG	1 S	0651.0	0651.6	3.0	5.2	.9		
	6100	KISV	46 C	0726.5	0728.4	17.0	8.0			
	6100	KISV		0726.5	0729.6		9.0			
	6100	KISV		0726.5	0731.7		14.0			
	9100	GORK	22 GRF	0729.4	0731.6	11.7	22.0			
	4995	LEAR	4 S/F	0731.3	0731.6	4.0	11.0			
	8800	LEAR	4 S/F	0731.3	0731.6	3.8	22.0			
	245	LEAR	8 S	0733.0	0733.1	.1	55.0			
	606	LEAR	8 S	0733.0	0733.1	.1	11.0			
	204	IZMI	8 S	0825.5	0825.6	.4	300.0	170.0		

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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
28	204	IZMI	41 F	0908.5	0909.0	1.0	200.0			
	2650	DWIN	45 C	0920.0	0920.0	10.0	300.0	100.0		
	2950	GORK	21 GRF	0927.0	0957.0	83.0	89.0			
	204	IZMI	8 S	0932.5	0932.6	.4	200.0	120.0		
	3000	IZMI	5 S	0941.0	0941.8	1.5	74.0	39.0		
	9100	GORK	21 GRF	0944.5	0947.8	44.0	15.0			
	6100	KISV	4 S/F	0944.9	0946.8	4.0	26.0			
	3000	POTS	29 PBI	0945.0	0946.6	25.0	140.0U			
	9500	POTS	29 PBI	0945.0	0946.6	30.0	38.0			
	3200	BERN	4 S/F	0945.0	0947.1	2.0	180.0			ONLY PAPER REC
	5200	BERN	4 S/F	0945.0	0947.1	2.0	37.0			ONLY PAPER REC
	1470	POTS	4 S/F	0945.0	0947.9	3.5	9.0			
	2695	LEAR	4 S/F	0945.1	0946.6	3.0	180.0			
	4995	LEAR	4 S/F	0945.1	0946.8	3.4	46.0			
	8800	LEAR	4 S/F	0945.5	0946.8	2.6	54.0			
	2950	GORK	3 S	0945.6	0946.7	1.7	150.0			
	9100	GORK	4 S/F	0945.7	0946.7	1.7	44.0			
	15400	LEAR	8 S	0945.8	0947.3	2.0	04.0			
	2650	DWIN	45 C	0946.0	0947.0	3.0	180.0	80.0		
	430	KRAK	8 S	0950.2	0950.2	.2	20.0			
	204	IZMI	8 S	1045.0	1045.1	320.0	240.0			
	430	KRAK	42 SER	1056.9	1059.2	24.3	50.0			
	2650	DWIN	1 S	1121.0	1121.0	1.0	20.0	10.0		
	204	IZMI	41 F	1121.0	1121.8	2.0	100.0			
	260	ONDR	8 S	1127.6	1127.6	1.5	29.0			
	204	IZMI	7 C	1144.5	1145.0	.5	250.0	100.0		
	234	POTS	4 S/F	1144.8	1144.8	.4	300.0	15.0		III
	245	SGMR	47 GB	1239.1	1239.6	1.4	1199.0			
	536	ONDR	8 S	1242.9	1243.0	.4	46.0			
	536	ONDR	8 S	1307.8	1308.0	.2	32.0			
	430	KRAK	8 S	1329.6	1329.8	.4	24.0			
	260	ONDR	8 S	1331.6	1331.7	.4	10.0			
	536	ONDR	8 S	1331.6	1331.8	.1	46.0			
	260	ONDR	8 S	1342.8	1342.9	.4	9.0			
	2800	OTTA	240 R	1504.0	1507.0	3.0	3.0	1.2		
	606	SGMR	8 S	1506.3	1506.8	1.8	16.0			
	1415	SGMR	8 S	1506.3	1507.0	1.20	21.0			
	930	BORD	46 C	1506.4	1507.0	.7	22.0	3.0		
	2800	OTTA	20 GRF	1600.0	1740.0	180.0	6.6	3.3		
29	208	YORO	44 NS	0000.0E		240.0D		24.0		
	200	GORK	44 NS	0558.0E		303.0D		5.0		
	127	TORN	43 NS	0722.0	1431.6	628.0D	30.0	2.0		VO
	260	ONDR	44 NS	0734.0E		368.0D	48.0U			
	200	MIRA	44 NS	2128.0E	0440.0	590.0D	40.0	20.0		WL
	245	LEAR	43 NS	2149.0	0228.8	767.0D	300.0			
	410	LEAR	43 NS	2336.0	0359.8	660.0	100.0			
	2000	TYKW	45 C	0043.5	0043.6	1.0	6.0	1.5		
	9395	PEKG	20 GRF	0154.0	0202.9	14.0	6.9			
	9395	PEKG	21 GRF	0229.0	0231.5	16.0	7.7	3.0		
	2840	PEKG	20 GRF	0232.0	0241.0	24.0	5.0	2.1		
	606	LEAR	8 S	0248.8	0249.0	.3	17.0			
	606	LEAR	8 S	0617.8	0618.1	.5	19.0			
	245	LEAR	8 S	0617.8	0618.1	.5	110.0			
	6100	KISV	2 S/F	0622.8	0624.9	8.0	5.0			
	100	GORK	46 C	0658.1	0658.5	2.7	70.0D			
	100	GORK		0658.1	0659.7		770.0D			
	204	IZMI	7 C	0659.2	0659.2	.8	125.0	60.0		
	650	GORK	4 S/F	0659.2	0659.3	.5	29.0			
	606	LEAR	8 S	0659.3	0659.5	.5	200.0			
	410	LEAR	8 S	0659.3	0659.6	.5	15.0			
	245	LEAR	8 S	0659.3	0659.6	.5	59.0			
	200	GORK	8 S	0659.4	0659.4	.9	130.0			
	430	KRAK	8 S	0805.8	0805.8	.2	26.0			
	810	KRAK	8 S	0805.8	0805.8	.2	17.0			
	204	IZMI	4 S/F	0808.8	0809.5	1.0	165.0	70.0		
	9100	GORK	21 GRF	0822.5	0921.7	158.0	20.0			
	430	KRAK	8 S	0831.7	0831.7	.2	25.0			
	430	KRAK	42 SER	0914.2	0920.5	8.0	38.0			
	2950	GORK	21 GRF	0915.0	0927.0	93.0	13.0			
	950	GORK	3 S	0915.1	0919.8	4.8	5.5			
	8800	ATHN	8 S	0918.8	0919.0	.7	65.0			
	4995	ATHN	8 S	0918.8	0919.3	.7	170.0			
	1415	ATHN	4 S/F	0918.8	0919.3	9.0	160.0			
	2695	ATHN	4 S/F	0918.8	0919.3	9.0	290.0			
	9500	POTS	3 S	0919.0	0919.5	9.5	86.0			
	930	BORD	8 S	0919.0	0919.7	11.0	62.0	20.0		
	6100	KISV	8 S	0919.0	0919.7	3.0	262.0			
	3000	POTS	4 S/F	0919.0	0919.9	11.0	970.0U			
	1470	POTS	29 PBI	0919.0	0919.9	30.0	164.0			
	930	BORD		0919.0	0920.3	1.3U	95.0			
	808	ONDR	29 PBI	0919.0	0920.4	14.2	22.0	10.0		
	4995	LEAR	47 GB	0919.1	0919.6	4.7	500.0			
	2695	LEAR	4 S/F	0919.1	0919.6	5.5	310.0			
	650	GORK	4 S/F	0919.1	0919.6	1.9	23.0			
	2950	GORK	3 S	0919.1	0919.7	1.9	105.0			
	1415	LEAR	4 S/F	0919.1	0919.8	8.4	200.0			
	810	KRAK	4 S/F	0919.2	0919.6	5.0	55.0			
	9100	GORK	3 S	0919.2	0919.8	1.5	158.0			
	606	LEAR	8 S	0919.3	0919.6	.5	59.0			
	15400	LEAR	8 S	0919.3	0919.6	1.0	51.0			

SOLAR RADIO EMISSION
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	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
29	8800	LEAR	4 S/F	0919.3	0919.6	4.5	190.0			
	3000	IZMI	7 C	0919.4	0920.0	12.5	370.0	111.0		
	650	GORK	29 PBI	0921.0	0921.0	39.0	5.0			
	6100	KISV	29 PBI	0922.0	0922.0		21.0			
	33	UPIC	3 S	0932.7	0933.0	.5				
	29	UPIC	3 S	0933.0	0933.2	.4				
	204	IZMI	5 S	1103.0	1103.0	.5	460.0	270.0		
	9500	POTS	20 GRF	1119.0	1123.0	26.0	7.0			
	260	ONDR	8 S	1119.5	1119.8	1.0	98.0			
	33	UPIC	45 C	1119.6	1119.8	2.6				
	127	TORN	4 S/F	1119.6	1121.0	3.0	360.0	70.0		
	113	POTS	4 S/F	1119.7	1120.3	1.7	525.0	80.0		III
	29	UPIC	45 C	1119.7	1120.4	2.4				
	1470	POTS	29 PBI	1119.8	1120.5	14.0	10.0			
	6100	KISV	4 S/F	1119.9	1120.5	2.0	8.0			
	204	IZMI	4 S/F	1119.9	1121.0	1.2	250.0	170.0		
	234	POTS	4 S/F	1120.0	1120.5	1.1	200.0	30.0		III
	3000	POTS	29 PBI	1120.0	1120.5	8.5	19.0U			
	536	ONDR	29 PBI	1120.0	1120.6	9.0	10.0	3.0		
	430	KRAK	2 S/F	1120.1	1120.5	3.0	29.0	4.0		
	810	KRAK	1 S	1120.2	1120.7	1.2	10.0	5.0		
	6100	KISV	8 S	1123.0	1123.4	1.0	9.0			
	430	KRAK	42 SER	1136.5	1159.2	36.0	60.0			
	204	IZMI	4 S/F	1150.8	1151.4	1.5	150.0	70.0		
	260	ONDR	8 S	1206.4	1206.6	.7	158.0			
	234	POTS	4 S/F	1207.0	1207.0	.6	300.0	8.0		III
	536	ONDR	8 S	1219.6	1219.7	.4	43.0			
	9400	HUAN	29 PBI	1241.1	1241.1	9.7	10.2	4.3		L
	430	KRAK	42 SER	1245.6	1328.2	43.0	30.0			
	7000	SAOP	40 F	1313.0		9.0				
	536	ONDR	8 S	1324.8	1324.8	.2	32.0			
	536	ONDR	8 S	1325.4	1325.4	.4	45.0			
	2800	OTTA	20 GRF	1500.0	1507.0	25.0	3.8	2.0		
	7000	SAOP	20 GRF	1535.5	1626.6		47.0	23.0		12R
	2800	OTTA	21 GRF	1540.0	1655.0	220.0	33.0	14.8		
	2800	OTTA	40 F	1543.0	1623.1	92.0	66.0			
	2800	OTTA	8 S	1846.7	1847.0	.9	5.8	2.9		
	245	PALE	8 S	1846.8	1847.1	.3	170.0			
	9400	HUAN	4 S/F	1928.5	1929.0	1.3	33.3	16.6		L
	9400	HUAN		1928.5	1929.4		38.2			L
	410	PALE	8 S	1928.6	1929.0	2.0U	90.0			
	1415	PALE	4 S/F	1928.6	1929.3	5.7	80.0			
	2800	OTTA	45 C	1928.7	1929.5	11.0	61.0	12.2		
	2695	PALE	4 S/F	1928.8	1929.3	3.8	62.0			
	606	PALE	4 S/F	1929.3	1929.6	2.8	22.0			
	2800	OTTA	20 GRF	1950.0	2005.0	60.0	3.4	1.7		
	245	PALE	8 S	2131.3	2131.6	.3	70.0			
	410	LEAR	8 S	2321.0	2321.1	.5	13.0			
	245	PALE	8 S	2331.8	2332.1	.3	71.0			
30	208	VORO	44 NS	0000.0E		240.0D		29.0		
	606	LEAR	43 NS	0315.0	0430.8	109.1	320.0			
	200	GORK	44 NS	0557.0E		358.0D		25.0		
	100	GORK	44 NS	0558.0E		362.0D		10.0		
	127	TORN	43 NS	0646.0	0738.0	464.0D	220.0	34.0		V1
	204	IZMI	44 NS	0700.0E		300.0D	60.0			
	260	ONDR	44 NS	0818.0E		337.0D	22.0U			
	3750	TYKW	45 C	0010.0	0014.8	25.0	9.0	3.0		
	2000	TYKW	5 S	0013.0	0014.8	7.0	8.0	3.0		
	9395	PEKG	20 GRF	0110.0	0139.6	32.0D	5.8			
	3750	TYKW	45 C	0153.0	0205.6	19.0	60.0	7.0		
	2840	PEKG	3 S	0156.0	0205.3	29.0	31.0	3.8		
	9395	PEKG	21 GRF	0156.0	0217.0	30.0	12.0	6.1		
	1000	TYKW	45 C	0157.0	0158.0	3.5	30.0	4.0		
	2000	TYKW	5 S	0157.6	0158.0	1.5	1.5	.5		
	1000	TYKW	47 GB	0201.0	0205.5	5.5	1600.0	150.0		
	500	HIRA	45 C	0201.6	0205.3	7.0D	200.0	20.0		MR
	500	HIRA	7 C	0201.6E	0205.3	7.0D	7.0	200.0		200
	4995	LEAR	4 S/F	0201.8	0205.6	7.7	97.0			
	2695	LEAR	4 S/F	0202.0	0205.6	6.8	29.0			
	606	LEAR	4 S/F	0202.1	0205.6	6.7	490.0			
	2000	TYKW	45 C	0203.0	0205.7	7.0	17.0	3.0		
	1415	LEAR	4 S/F	0203.3	0204.8	5.5	119.0			
	245	LEAR	47 GB	0204.6	0205.3	3.4	860.0			
	8800	LEAR	4 S/F	0204.6	0205.3	4.2	48.0			
	15400	LEAR	8 S	0204.6	0205.8	2.0	17.0			
	1415	PALE	8 S	0204.8	0204.8	1.3	190.0			
	200	HIRA	45 C	0204.9	0205.2	1.3	1800.0	510.0		ML
	245	PALE	47 GB	0205.0	0205.1	2.5	940.0			
	410	LEAR	8 S	0205.0	0205.3	1.1	370.0			
	9400	TYKW	5 S	0205.0	0205.4	1.0	24.0	11.0		
	9395	PEKG	5 S	0205.0	0205.5	2.0	22.0	8.4		
	8800	PALE	8 S	0205.1	0205.3	.5	42.0			
	100	HIRA	45 C	0205.1	0205.6	1.4	290.0	85.0		
	4995	PALE	8 S	0205.1	0205.6	.7	82.0			
	606	PALE	8 S	0205.1	0205.8	.7	130.0			
	2695	PALE	8 S	0205.3	0205.5	.3	21.0			
	9400	TYKW	29 PBI	0206.0		10.0	4.0	2.0		
	3750	TYKW	29 PBI	0212.0		10.0	2.0	1.0		
	2840	PEKG	22 GRF	0229.0	0244.8	63.0	17.0	3.0		
	3750	TYKW	20 GRF	0230.0	0312.0	90.0	6.0	3.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1981

	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
30	2000	TYKW	20 GRF	0240.0	0315.0	90.0	2.0	1.0		
	9395	PEKG	20 GRF	0246.0	0315.0	74.0	7.5	3.7		
	9395	PEKG	5 S	0408.0	0409.2	10.0	9.2	2.8		
	2840	PEKG	22 GRF	0424.0	0437.0	18.0	21.0	11.0		
	2840	PEKG	20 GRF	0528.0	0537.1	32.0	17.0	11.0		
	200	GORK	4 S/F	0655.3	0658.0	3.0	390.0			
	2950	GORK	20 GRF	0745.0	0824.0	186.0	8.0			
	9100	GORK	20 GRF	0750.4	0952.0	175.0	14.0			
	430	KRAK	42 SER	0844.6	0955.2	280.0	290.0			
	430	KRAK		0844.6	1015.4		340.0			
	430	KRAK		0844.6	1240.7		270.0			
	6100	KISV	21 GRF	0850.7	0857.0	10.0	5.0			
	810	KRAK	8 S	0925.1	0925.2	.2	8.0			
	6100	KISV	2 S/F	0942.3	0943.8	2.5	5.0			
	810	KRAK	8 S	0954.8	0955.0	.6	20.0			
	536	ONDR	8 S	0959.1	0959.1	.2	20.0			
	536	ONDR	8 S	1004.3	1004.3	.2	14.0			
	810	KRAK	8 S	1015.2	1015.2	.2	38.0			
	3000	POTS	3 S	1136.2	1137.5	2.3	12.0U			
	2650	DWIN	1 S	1138.0	1139.0	2.0	10.0	5.0		
	536	ONDR	8 S	1156.0	1156.3	.2	22.0			
	113	POTS	4 S/F	1206.0	1206.2	.3	250.0	60.0		
	7000	SAOP	28 PRE	1209.0		5.1	11.0	5.0		
	3000	POTS	4 S/F	1213.5	1214.5	3.5	12.0U			
	1470	POTS	4 S/F	1214.0	1214.6	3.2	9.0			
	7000	SAOP	45 C	1214.1	1215.4	4.6	25.0	12.0		26L
	7000	SAOP	29 PBI	1218.8			8.0	4.0		
	810	KRAK	42 SER	1239.0	1241.0	2.6	48.0			
	930	BORD	8 S	1331.2	1331.2	.2	66.0	2.0		
	2800	OTTA	240AR	1455.0	1535.0	40.0	7.0	2.4		
	2800	OTTA	3 S	1456.0	1457.2	5.0	108.0	24.0		
	930	BORD	3 S	1456.5	1457.3	3.0	22.0	10.0		
	7000	SAOP	4 S/F	1457.3	1458.2	1.4	106.0	53.0		11L
	7000	SAOP	29 PBI	1458.7		3.0	17.0	8.0		
	3750	TYKW	5 S	2314.8	2315.2	1.5	7.0	2.0		
	606	LEAR	47 GB	2315.0	2315.1	.8	860.0			
	245	LEAR	47 GB	2315.0	2315.1	.8	8300.0			
	4995	LEAR	8 S	2315.0	2315.1	1.3	20.0			
	9400	TYKW	5 S	2315.0	2315.2	1.5	6.0	2.0		
	2000	TYKW	5 S	2315.0	2315.3	1.0	2.0	.7		
	1000	TYKW	45 C	2315.0	2315.5	1.0	43.0	11.0		
	410	LEAR	8 S	2315.1	2315.1	.4	71.0			
	8800	LEAR	4 S/F	2315.1	2315.1	2.2	18.0			
	410	LEAR	8 S	2352.0	2352.5	.8	36.0			

Reports are received routinely from the following observatories:

ATHN = Athens
BERN = Berne
BORD = Bordeaux
CRIM = Crimea
DWIN = Dwingeloo
GORK = Gorky
HARS = Harestua
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = Izmiran
KISV = Kislovodsk
KRAK = Krakow
LEAR = Learmonth
MANI = Manila
NAGO = Nagoya
NOBE = Nobeyama
ONDR = Ondrejov
OTTA = Ottawa
PALE = Palehua
PEKG = Peking
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
SYDN = Sydney
TORN = Torun
TYKW = Toyokawa
YUNN = Yunnan
TRST = Trieste
UPIC = Upice
VORD = Voroshilov

Explanation of Type Code:

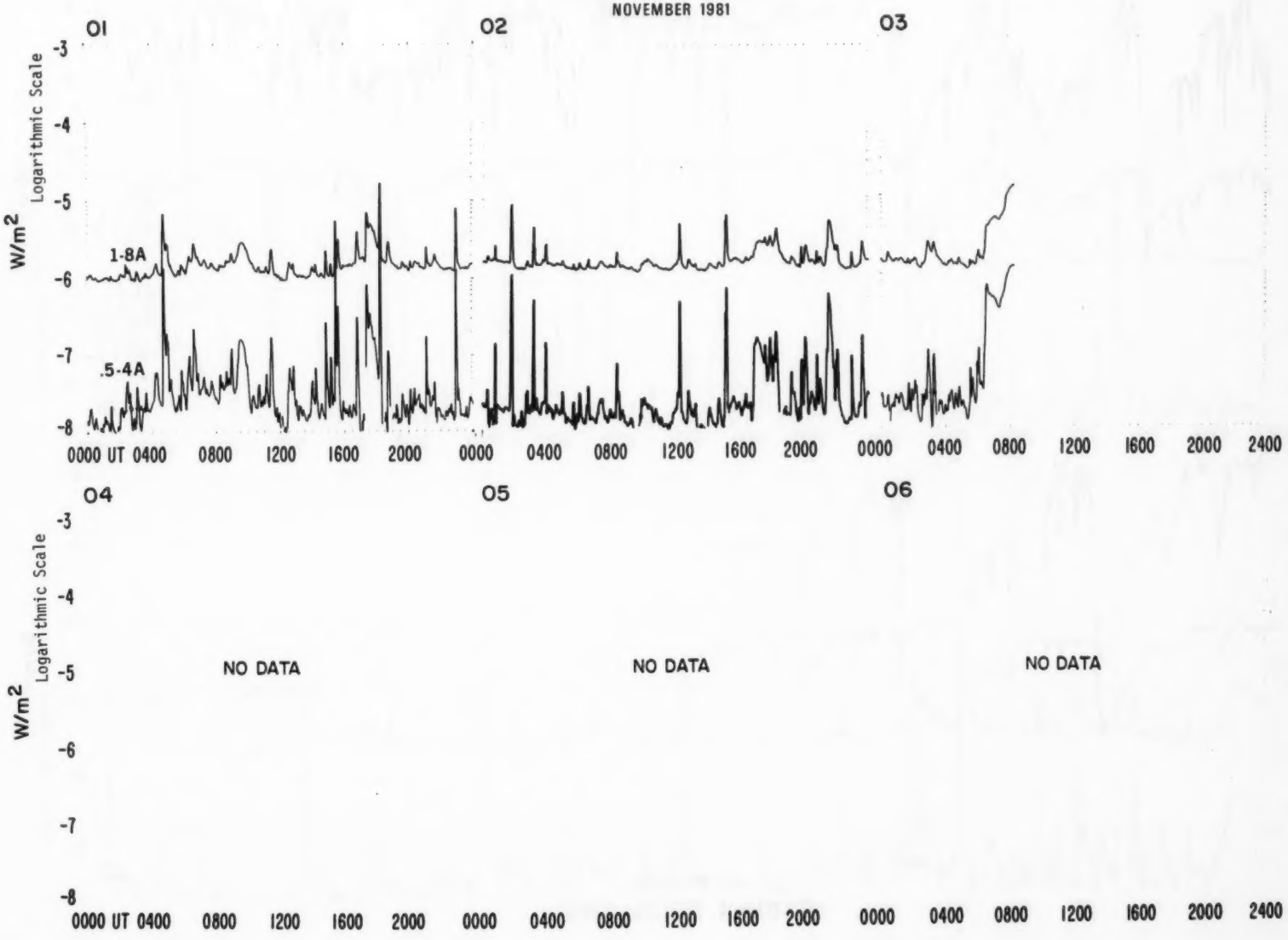
1 Simple 1
2 Simple 1F
3 Simple 2
4 Simple 2F
5 Simple
6 Minor
7 Minor +
8 Spike
20 Simple 3
21 Simple 3A
22 Simple 3F
23 Simple 3AF
24 Rise
25 Rise A
26 Fall
27 Rise and Fall
28 Precursor
29 Post Burst Increase
30 Post Burst Increase A
31 Post Burst Decrease
32 Absorption
40 Fluctuation
41 Group of Bursts
42 Series of Bursts
43 Onset of Noise Storm
44 Noise Storm in Progress
45 Complex
46 Complex F
47 Great Burst
48 Major
49 Major +

1A Simple 1A
2A Simple 1AF
3A Simple 2A
4A Simple 2AF
21A Simple 3A GRF
24O Rise only
24OF Rise only F
24P Post Rise
24PF Post Rise F
26A Fall A
26O Fall Only
26F Fall F
27F Rise and Fall F
27AF Rise and Fall AF
31A P.B. Decrease A
32A Absorption A
46F Complex F

Under the "Remarks" column heading, RIF stands for Relative Increase in Flux. The expression "RIF 469.2", for example, denotes a flux increase of 469.2% above background.

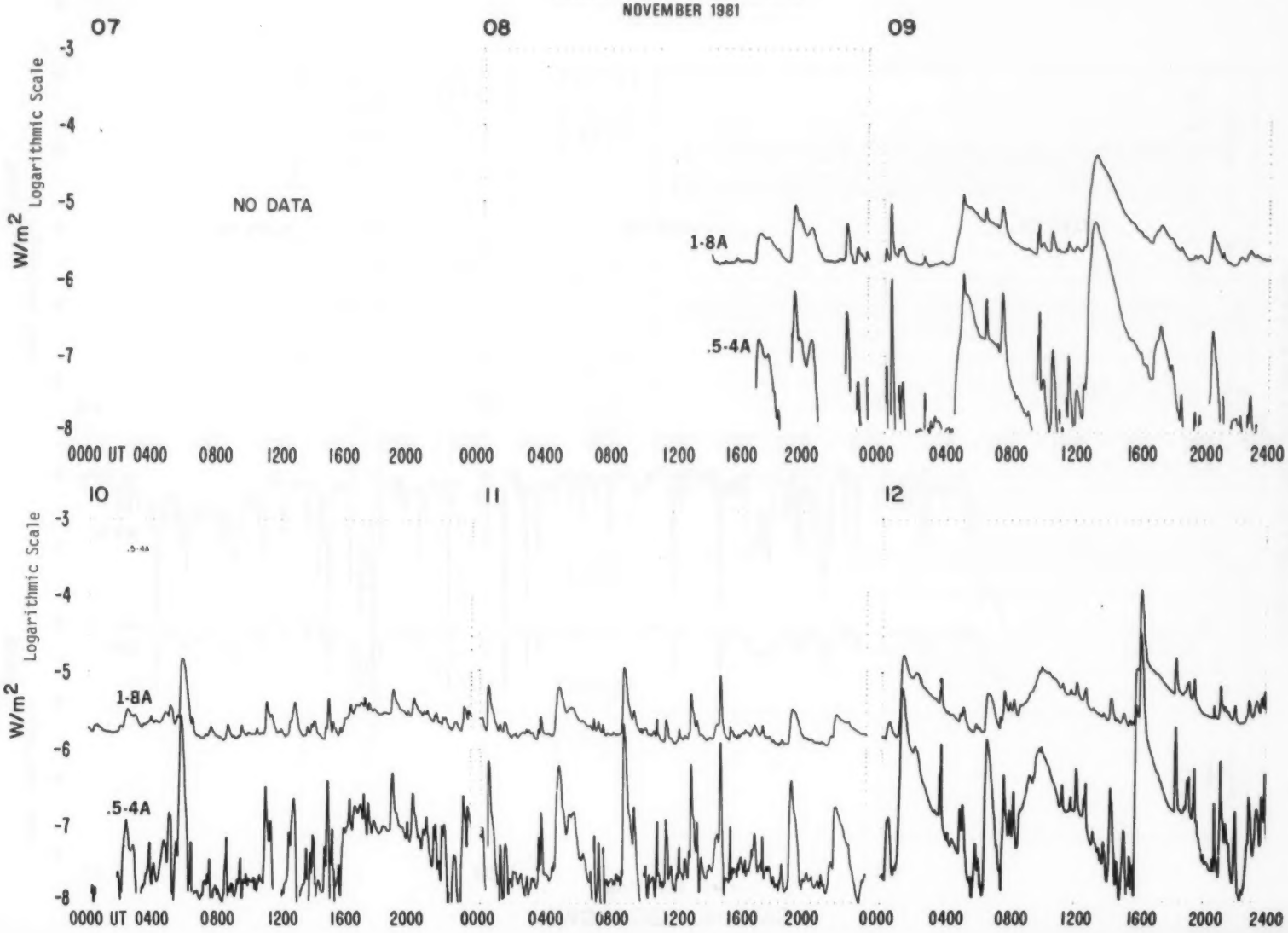
SMS-GOES X-RAYS

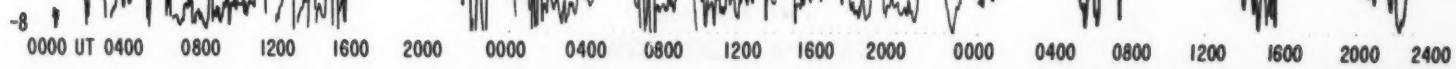
NOVEMBER 1981



SMS-GOES X-RAYS

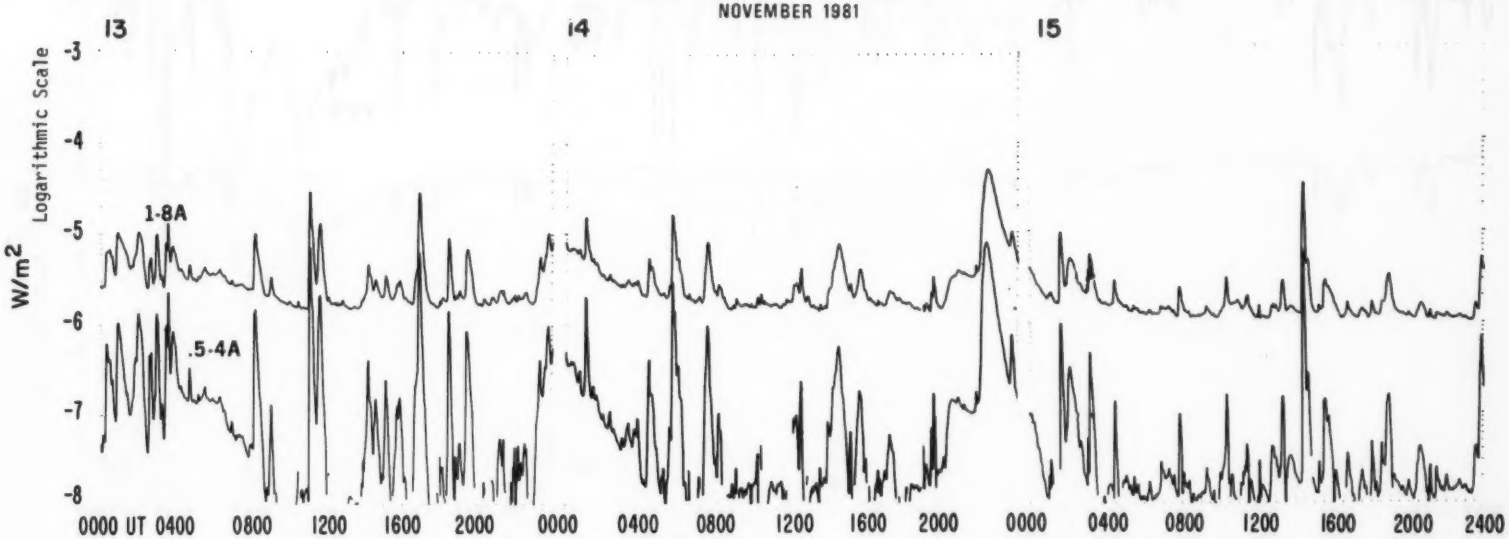
NOVEMBER 1981

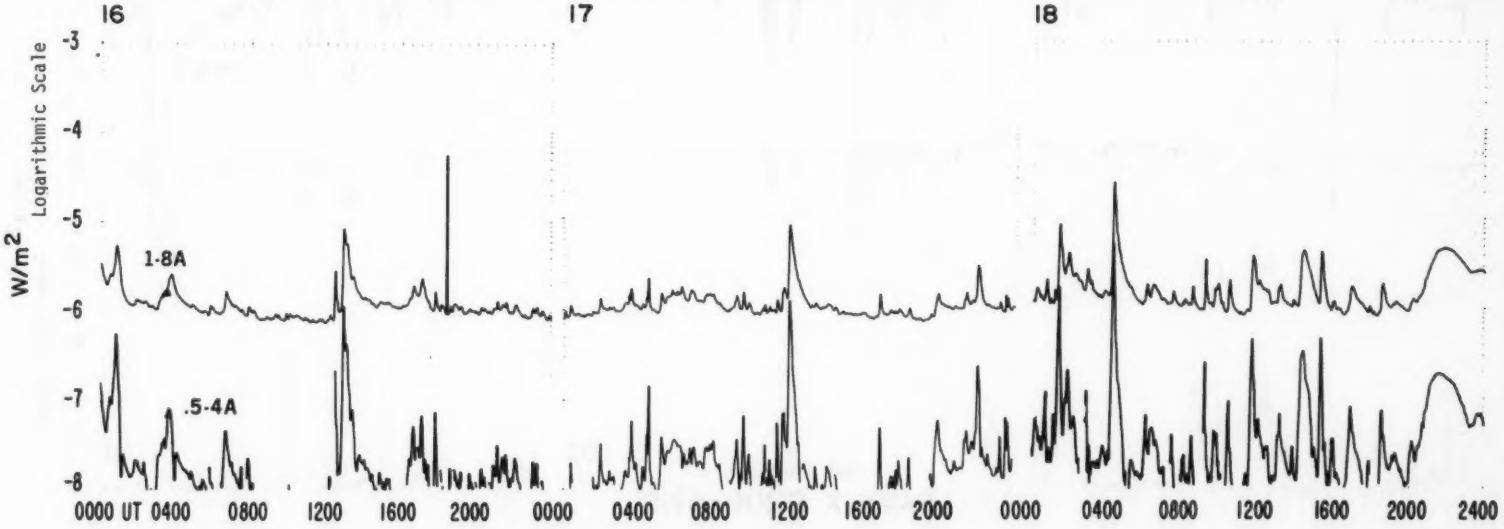




SMS-GOES X-RAYS

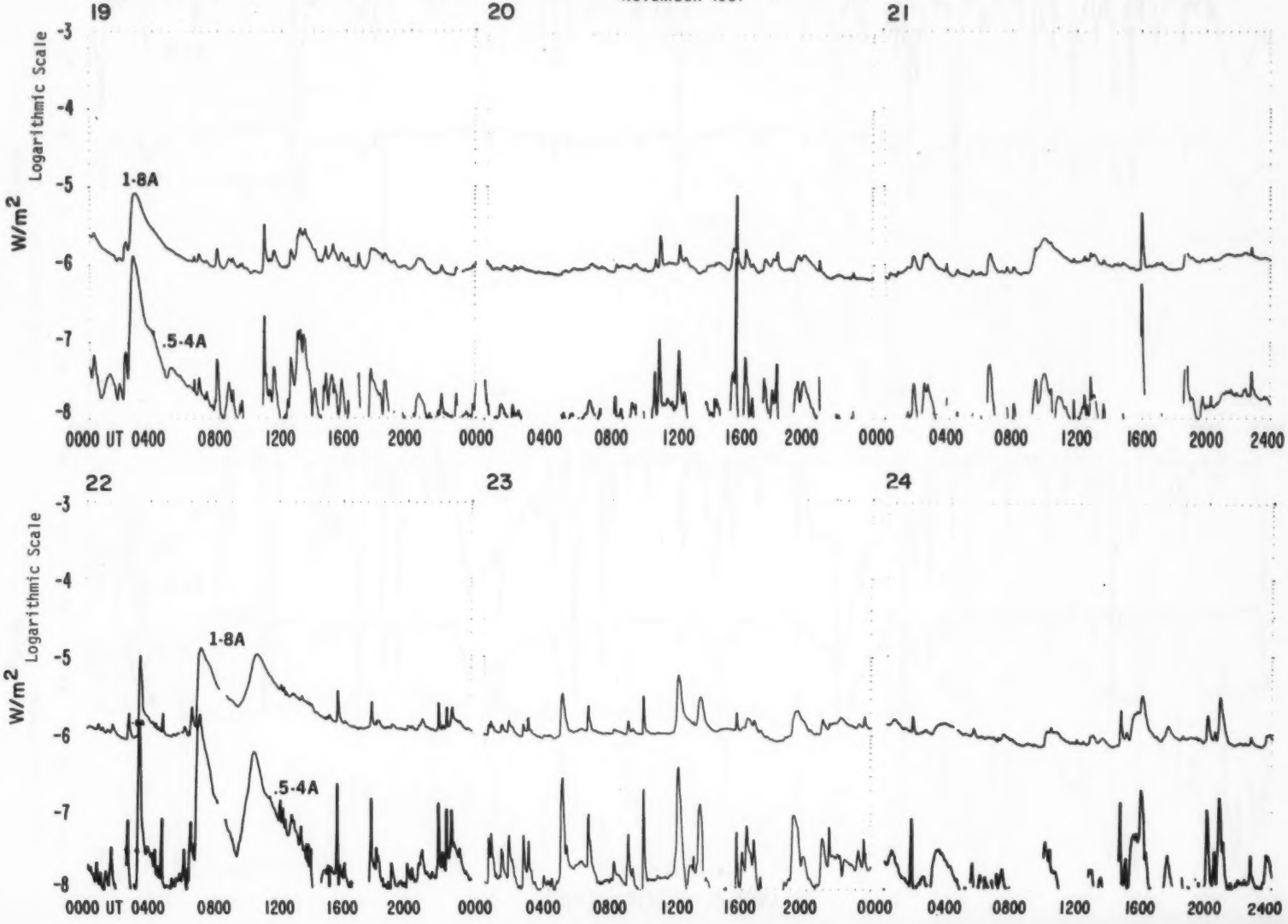
NOVEMBER 1981

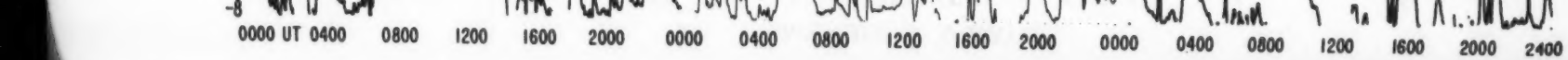




SMS-GOES X-RAYS

NOVEMBER 1981





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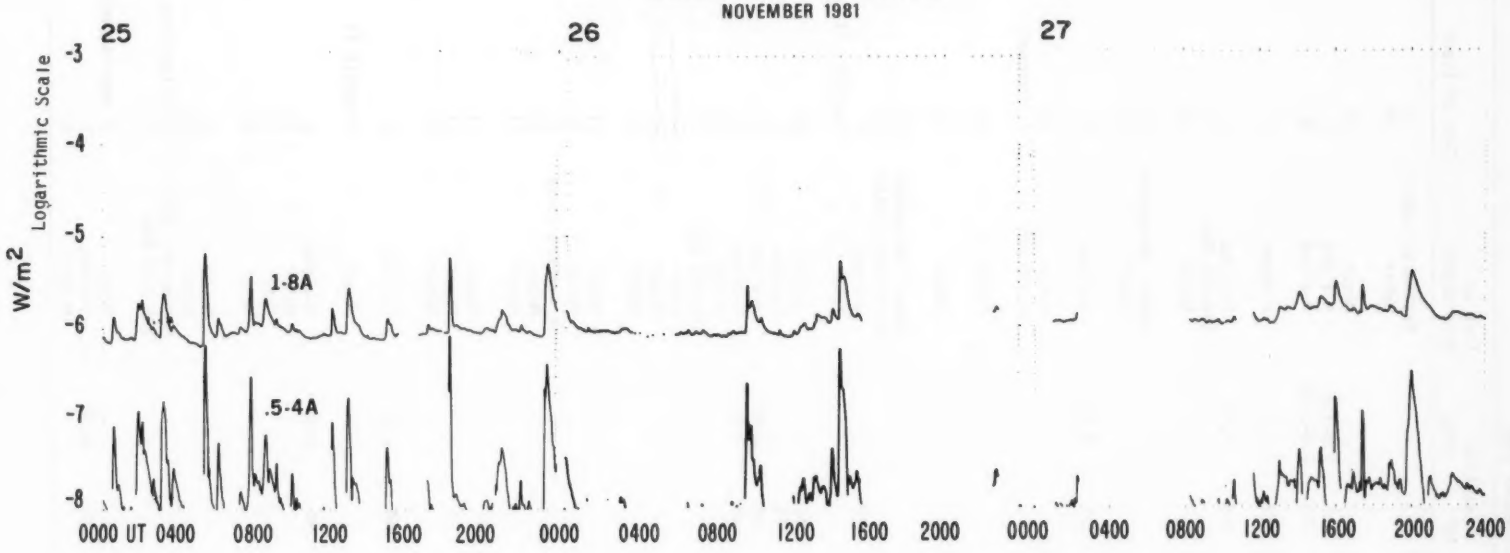

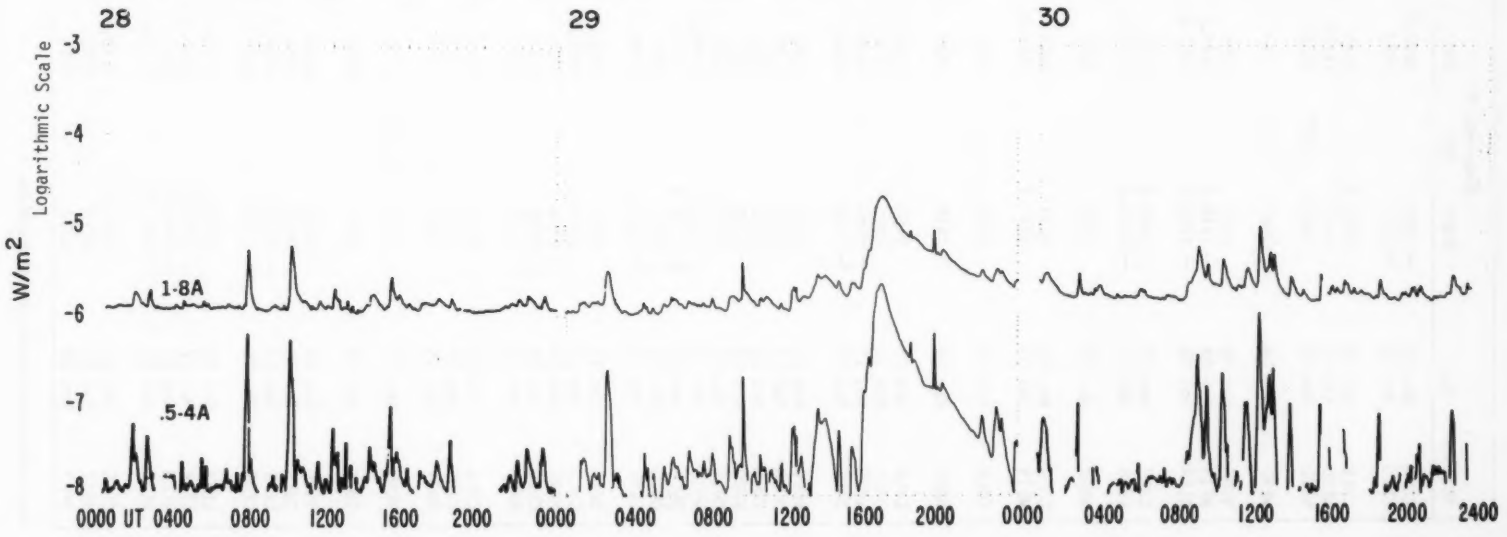

MASS EJECTIONS FROM THE SUN

November 1981

Station	Day	Observed UT Start	Max	End	Location RA°	R/R_0	Freq or Wavelength	Type of Event
CULG	Nov 01	0613		0628.5			Decimeter; meter	II
CULG	Nov 01	0618		0623			Meter	IV
CULG	Nov 03	0432.5		0440			Meter	II
WEND	Nov 03	0826		1410D	110	1.0-1.1	H-alpha	A
WEND	Nov 03	1503E	1523	1538D	110	1.0-1.14	H-alpha	S
WEND	Nov 04	1020	1027	1212D	112	1.0	H-alpha	A
VORO	Nov 05	0214		0225	356	0.16	H-alpha	S
WEIS	Nov 05	1240.9		1249.0			140-370 MHz	II
BLEN	Nov 05	1241.8		1251.9			Meter	II
CULG	Nov 07	0400.5		0421			Meter; dekameter	II
LEAR	Nov 07	0401.0		0412.0			Meter	II
VORO	Nov 08	2315		2332	102	0.61	H-alpha	S
CULG	Nov 09	0034		0043			Meter	II
WEIS	Nov 09	1242.2		1319.0			30-180 MHz	II Harmonic
CULG	Nov 10	0538		0552			Meter	II
HARV	Nov 11	1534		1538			Meter	II
CULG	Nov 12	0156		0220.5			Meter; dekameter	II
HARV	Nov 12	1813		1820			Decimeter; meter	II
VORO	Nov 12	2350		0001	140	1	H-alpha	S
CULG	Nov 12	2353		2354.5			Meter	Possible II
VORO	Nov 13	0050		0102	140	1	H-alpha	S
VORO	Nov 13	0114		0155	140	1	H-alpha	S
VORO	Nov 13	0123		0145	326	0.40	H-alpha	S
VORO	Nov 13	0202		0227	294	0.93	H-alpha	S
CULG	Nov 13	0614.5		0629			Meter	II
WEIS	Nov 13	1105.7		1108.8			180-400 MHz	II
BLEN	Nov 13	1105.9		1109.7			Meter	II
CULG	Nov 13	2351		2356			Meter	II
LEAR	Nov 13	2351.3		2356.7			Meter	II
CULG	Nov 14	0431		0435.5			Meter	II
CULG	Nov 14	0542.5		0552.5			Meter	II
HARV	Nov 14	2155		2216			Decimeter; meter	IV
CULG	Nov 14	2204		2220			Meter	II
HARV	Nov 14	2204		2211			Meter	II
CULG	Nov 15	0140		0145			Meter	II
HARV	Nov 15	1424		1429			Meter	II
HARV	Nov 15	1431		1435			Meter	IV
WEND	Nov 17	1351	1400	1410	254	1.0	H-alpha	S
CULG	Nov 18	2328		2353			Meter	Possible II
VORO	Nov 19	0202		0227	294	0.93	H-alpha	S
CULG	Nov 19	0230		0246			Meter	II
LEAR	Nov 19	0230.7		0256.7			Meter	II
LEAR	Nov 19	0230.7		0246.7			Meter	II
LEAR	Nov 22	0729.2		0743.5			Meter	II
LEAR	Nov 22	0743.5		0830.0			Meter	IV
BLEN	Nov 22	0756.5		0830			Decimeter; meter	IV Pulsations
WEIS	Nov 22	0757.5		0829.0			180-1000 MHz	IV
CULG	Nov 25	0523.5		0540.5			Meter	II Herringbone
ABST	Nov 25	0713	0719	0742	189	0.18	H-alpha	S
HARV	Nov 25	1823		1825			Meter	II

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